Q Talking about immune symptoms, you mentioned arthritis and rheumatism, pale and numb fingers, rash on cheeks that last more than a month, rash from sun other than sunburn, pain on taking deep breaths, protein or albumin in urine and sudden hair loss.

Are all those items I mentioned immune system symptoms, in your opinion?

A Yes.

- 9 Q And you characterized them that way in your 10 report?
  - A That's correct.
  - Q Which if any of these immune system symptoms would Ms. McNeal have had had she not been exposed to creosote, penta or dioxin?
  - A I don't believe she had those symptoms absent her exposures to the dioxins, the PAHs and penta, and all of those after the immune system, giving rise to an increased risk for immune system symptoms. And I don't know of any other factor in her risk picture that would contribute to the immune system problems.
  - Q Which of the contaminants you've identified caused or contributed to her immune system? Was it penta? Creosote? Dioxin?
  - A The most well-studied are dioxins. They have been studied extensively for their propensity to disrupt

she?

- A No. I said that's an immune system dysfunction, two diagnoses that have been identified.
- Q Let's go back for a moment to the neurological symptoms you mentioned on the last page of your report and we'll mark these as exhibits tomorrow.

This is page 13 and you list a series of neurological symptoms. Do you see that?

- A Yes, I do.
- Q How many of these are based on self reports?
- A All symptoms by definition are self reports.
- Q For each one of these plaintiffs, you administered a questionnaire?
  - A That's correct.
  - Q And you did an examination?
- A That's correct.
  - Q And you reviewed available medical records?
- 18 A Yes.
  - Q Now, some of the symptoms the plaintiffs reported in their interviews with you and on their questionnaires are not confirmed by medical records; is that correct?
  - A That's correct. There are many symptoms they complain about that are not listed by their doctors in their medical records, correct.

and cause alterations in the immune system. There is some data with PAHs and penta, but most of the immune system disruption is most likely related to the dioxins.

- Q Are you able to be any more specific, that is can you tell me whether if Ms. McNeal had been exposed to just penta and not also PAHs and dioxins, she would have the same immune system symptoms or the same severity of her immune system symptoms?
  - A If she had just been exposed to PAHs and penta?
  - Q No, just dioxin and not the others.
- A I don't know. I think the important point is that these patients -- this patient in particular was exposed to chemicals and the whole mixture and developed these health problems.

As I said, I don't know of any other risk factors and it doesn't occur in people who smoke, and doesn't occur in -- I mean immune system dysfunction occurs in the general population but in a low prevalence and I don't know of any other risk factors.

Some doctors may say being black there is a slightly increased rate of scleroderma and lupus in blacks. Other studies have not confirmed that. But I have no reason to invoke any causative factor other than her exposure to the environmental pollutants.

Q She doesn't have scleroderma or lupus, does

1 Q Can you tell me which of the neurological
2 symptoms you have listed on page 13 are also reflected in
3 her medical records and which were reported on her visit
4 with you or her questionnaire?
5 A Well, in February 1998, she was seen by Dr.

A Well, in February 1998, she was seen by Dr. Harrison who diagnosed anxiety and didn't describe any further symptoms, unfortunately. None of the visits relative to her hypertension have really probed for her symptoms of headache, dizziness, lightheadedness memory disturbance and so forth.

I don't think there is other mention in her medical reports -- and we have a limited number of records and only Dr. Harrison's records and that's all we have.

Q Anxiety is not one of these neurological symptoms that you listed in your summary?

A No, I don't think so. We don't ask that question, per se, but let's look and see something. We do have an anxiety index under the profile of mood states and that reveals she has some slight anxiety and not a tremendous amount.

- Q And what was the doctor's name?
- A Harrison.
- Q So is Dr. Harrison a neurologist or just a 25 general internist?

A Judging by the records -- I didn't list his have positive HPV in their cervix, but many patients have it without HPV and do not have cervical cancer. So there specialty but I would think that he is - well, the 2 3 internist or family doctor. 3 has to be a co-factor. Q So she reported as a neurological symptom 4 4 Cigarette smoking is identified as a risk 5 5 anxiety to Dr. Harrison? factor for cervical cancer, as is exposure to a variety 6 A That's correct. 6 of other chemicals. But the one relevant here is 7 Q And several years later she reported a longer 7 cigarette smoking. PAHs have been found in the cervical list of neurological symptoms to you in response to her mucous and contribute to the risk of cancer in that 8 8 questionnaire and her examination; correct? 9 9 organ. 10 A That's correct. 10 Q And Ms. McNeal is or was a smoker? Q Let's move on to her immune system symptoms. 11 11 A She smoked -- what she said was one cigarette Which of her immune system symptoms have you confirmed by 12 12 per day. reference to her medical records? 13 13 Q Do you think that's right? I wondered if that A I don't think any of them have been confirmed 14 14 was a mistake. Was it one pack or one cigarette per day? 15 by her medical records. 15 A She was a one cigarette a day smoker. Like a 16 Q Those are all based on her answers to the 16 lot of black woman that I have interviewed in Mississippi 17 questionnaire and her visit with you? 17 and elsewhere, she is not a big smoker and doesn't sit 18 A That's correct. 18 and puff on them all day long and she has one cigarette 19 Q The next item you have in your summary is basically as a social event when she's with friends or 19 20 cancer. And the two cancers you mentioned are skin and 20 family. 21 cervical cancer in situ; is that correct? 21 Q And she began when she was 17 years old? A Yes. 22 22 A That's what she said. 23 Q And both of those were - correct me if I'm 23 Q And continued through the present time? 24 wrong - identified in medical records at some point; is 24 A She continues to be what I call a very light that right? 25 25 smoker. 125 127 1 A The carcinoma, yes. 1 Q And do you believe her smoking contributed to 2 2 Q And looking at her dermatology -- this is part her cervical cancer? 3 of your summary, page 11 of 13 -- it says right axillary 3 A Yes. 4 lipoma removed by Dr. Harrison. What's a lipoma? 4 Q Do you believe her cervical cancer is also 5 A A small benign fatty tumor. 5 related to exposure of dioxins, penta or PAHs? 6 6 Q That's not cancer? A I believe it's related to those chemicals, as 7 7 well, ves. 8 Q Then it says papilloma of neck excised. Do you 8 Q So the three factors we have for her cervical 9 see that? 9 cancer are the -- let me ask a foundational question. 10 A Yes. 10 Does cervical cancer of this nature ever occur 11 Q Is that a cancer? 11 in the absence of the human papilloma virus? 12 A No. It's a neoplastic growth but not a 12 A I don't recall. It's a high percentage. I'm 13 cancerous one. 13 not sure if a hundred percent and more like 90 percent 14 Q What type of skin cancer did Ms. McNeal have? where cervical cancers occur with HPV positivity. 14 15 A She didn't. She misstated that and it was Q And the HPV is the reason women get Pap smears 15 16 squamous cell carcinoma of the cervix that got 16 on a regular basis? 17 erroneously listed as a skin cancer. 17 A No. They get them to detect cancer in the 18 Q Do you think the reason she listed it 18 early treatable stage. Patients who do not have HPV get 19 erroneously is squamous cell is also a designation of 19 cervical Pap smears done on a regular basis. 20 skin cancer? 20 Q Why is it called a Pap smear? A Yes. 21 21 A After Dr. Papanicolaou who invented the smear. 22 Q What causes squamous cell cancer of the cervix? 22 Q Fair enough. Just to go back to the question, 23 A There is a virus called human papilloma virus 23 the three contributing factors we have is the human 24 which appears to be a co-factor for the development of papilloma virus, the cigarette smoking and exposure to 25 PAHs, dioxins and penta; is that correct? cervical cancer, and most patients with cervical cancer 25 126 128 A Yes.

Q Is there any way to separate out for me the extent to which any of the three causative factors contributed to her getting cervical cancer?

A Her exposure to the PAHs by the history of what I have, one cigarette a day, would be a small contributing factor. Her dose of PAHs, dioxin and penta are far, far greater risk factors than that one cigarette a day.

In fact, in the history of cigarette smoking and cancer, patients that are light smokers usually don't have any significant increase in their cancer risk just from smoking. Assuming she does smoke as light as I'm assuming she did.

With the lung cancer risk, you don't begin to see a significant increase in the lung cancer risk of smokers until they get to about 20 pack years, and there is some increase below 20 pack years, but that's when you see the clear separation.

So social smokers like this, they don't have a big risk for getting cancer and that would extend I think to the cervical cancer. So even though it's probably a contributing factor on top of her very high exposures that took place in the neighborhood from the plant, the major, major cause is her exposure to the plant.

Q Do you know whether intensity of infection or number of virus molecules per picogram of blood is something that influences the rate that women get this type of cervical cancer?

A It probably does. I don't remember the data off the top of my head but it makes sense to me if there is documentation of a heavier viral load, that might increase the risk.

Q Viruses act the same way that some of these environmental toxins do, the heavier the dose and the larger exposure the more likely it is that a person will have a negative effect from the virus?

A Well, the thing that determines the viral load is the patient's immune system. You're right. If the immune system is impaired, allowing the virus to grow, that means the immune system is probably less able to fight off cancer. So the mechanism of which the increased rate of cancer in a higher viral load would most likely reduce the immune system in that patient.

Q Can you tell me, but for exposure to PAH, dioxin or penta if Ms. McNeal would have had cervical cancer?

A I don't how you could say that. What we have is a patient in front of us, and she had -- they never did the HPV virus titer on her so we don't know if she

The HPV is a necessary but not sufficient factor and seems to be a co-factor, increases the risk but by itself may or may not have caused the disease to

Q Women who are not exposed to PAH, dioxin and penta do get this type of cervical cancer; is that correct?

A Yes.

Q And do women get this type of cervical cancer who are not exposed to the HPV virus?

A I think I told you my best recollection is it's about 80 or 90 percent of patients with cervical cancer have HPV but not all. And, furthermore, there is a prevalence of patients with HPV who never get cervical cancer, so it's a co-factor but not a hundred percent. In other words, just because you have it, it doesn't mean you'll get the disease.

Q We're talking about HPV as sort of a present or not present type of situation.

Are there different levels of HPV different women have, different doses?

A Different types or different intensity of infection?

Q Yes.

A I don't have information about that issue.

had that -- the but for was absent the exposure to chemicals from Koppers?

Q Right. Would she have had cervical cancer?

A I think it's unlikely given the fact that the co-factor we've identified is her cigarette smoking. She didn't, as far as I know, have any other exposures that would increase her risk, and we don't know if she has HPV, as far as that goes. I don't know how you can say that she would or would not have cancer absent all the facts here.

Q The next item in your summary is respiratory symptoms, including chronic bronchitis, asthma — it's on page 13 for your summary of Ms. McNeal.

A Right.

Q Which of these respiratory symptoms do you believe are related to her exposure to PAH, dioxin or penta?

A I believe all are related to her exposure to the chemicals here.

Q Were they all caused by the exposure to the chemicals or contributed to by the exposure to chemicals?

A The only risk factor we have here for the respiratory symptoms is her cigarette smoking, which we indicated is quite minimal. You know, I think we should probably look at the other doctors' histories about the

study in Columbus, and what we see in this group, as 1 cigarette issue because I think it would help us. 2 2 well, that respiratory problems are a big problem Q Do you have that handy? associated with living under these conditions, but we 3 A I don't know if I can find it quickly. Dr. 4 also know that patients developed bronchitis and Sawyer did a history and let's see --4 5 shortness of breath and other respiratory symptoms from 5 Q Is this Dr. Sawyer's report? A No, Dr. Wilson. Dr. Sawyer didn't have any 6 cigarette smoking, as well. 6 7 Q It's not really possible for you to say that 7 comment about the cigarettes. 8 she'd have these identical respiratory symptoms had she Q Did Dr. Wolfson examine Ms. McNeal? 8 A Yes. The blood pressure was 174 over 84. I 9 never lived in the Carver Circle area; correct? 9 10 A i wouldn't want to opine on what would have don't see a comment about cigarettes and -- there it is. 10 11 happened under those theoretical circumstances. Ms. McNeal smoked for 32 years, starting at age 18, and she continues to smoke one pack per day and tried to stop 12 Q I think you answered this, but would it 12 smoking with use of nicotine patches without success. 13 surprise you if someone presented with a 32 pack year 13 history and also had the respiratory symptoms listed for Her husband is a 2-pack a day smoker since age 16 and 14 14 15 Ms. McNeal on page 13 of 13 on your summary? 15 stopped at age 55 in November 2004. 16 So when she wrote one, she meant one pack a day 16 A Would it surprise me to have all these symptoms and my comment about her cigarettes would have to be 17 if a 32 pack year smoker? 17 Q Yes. 18 modified. 18 19 Q Sure, absolutely. 19 A Well, let's get more detail. According to my 20 MR. LUNDY: This is her deposition summary? 20 history which, by the way, is in my handwritten notes --Q Which you've produced? 21 THE WITNESS: Yes. There is a lot of smoking 21 22 A Yes. She started with her asthma ten years 22 history in her deposition. 23 BY MR. HOPP: 23 before and was using 3 inhalers and two pills. 24 Q This summary is compiled by whom? 24 Q Ten years before what? 25 A Ten years before this examination and was 25 A I think Mr. Lundy's firm, one of their 135 133 experiencing significant shortness of breath in recent 1 employees. MR. HOPP: Now that you've shown it, I'd like years. That history is more characteristic of an 2 3 3 asthmatic patient. to make a request for a copy. 4 It's true that probably the cigarettes would MR. LUNDY: He hadn't read it and he'll not 4 5 rely on it. He can rely on the other doctors' stuff. 5 contribute to that but clearly her health condition 6 changed about ten years prior to the examination, BY MR. HOPP: 6 7 7 significantly, requiring her to go on all those Q She's obviously also got a 8 medications, and I think, you know, that's a significant 8 significant secondhand smoke exposure? 9 9 factor and is very common with patients that we've seen A From her husband, ves. living closer to these wood treatment plants and develop 10 Q That's going to contribute to the development 10 a picture like this. 11 of cervical cancer; correct? 11 12 A Yes, that's correct. 12 Usually a cigarette smoker, they gradually get worse and don't develop classical asthma-type symptoms Q And it's also going to contribute to the 13 13 and usually don't present in this way and it's usually a 14 development of respiratory symptoms? 14 gradual buildup, and hers is more like something damaged 15 A Definitely. 15 Q is there any way you can separate out her 26 or 16 her lungs in a more acute basis and what it was, I'm not 16 sure. I wouldn't put her in the category of a typical 17 more year pack history --17 18 A Pack year history. 18 smoker in terms of her history. 19 Q Her 32 pack year history from her creosote, 19 Q Are you prepared to render an opinion as to what her clinical picture would look like for respiratory 20 penta or dioxin exposure with respect to her respiratory 20 symptoms had she not lived in the Carver Circle area? 21 symptoms? 21 22 22 A I would say they're both contributing A Well, I think I can say without fear of 23 significantly. I don't think we can put a percentage on 23 contradiction that she'd have less respiratory problems it or even - I think both contributed significantly to 24 if she didn't live there. it. That's based on what we've found in our earlier 25 Q How much less? 134 136

A I don't know a number. them creosote warts and called the photosensitivity a 1 2 Q And you don't know how to take symptoms either 2 creosote-induced problem and the dry, itchy skin was on or off the list based on living at Carver Circle; 3 3 definitely a permanent effect. 4 Q Those were studies of workers? 5 A In terms of respiratory symptoms? 5 A That's correct. And we found the same thing in 6 Q Yes. 6 our studies of the residents living near the creosote 7 A Most patients with cigarette smoking don't 7 plant in Columbus, Mississippi. 8 complain of eye irritation and reduced sense of smell. 8 Q Dry and itchy skin? They can have some of the other symptoms but those are 9 9 A Yes, a very common complaint. not typical of a cigarette smoker. So I think they're 10 Ms. McNeal didn't have a creosote wart, did 11 fairly typical of our patients in Columbus and here, so I 11 she? 12 believe that those things are probably related to the 12 A No. 13 exposure. 13 Q And did you examine her skin for defatting? 14 Q is it your testimony that cigarette smokers 14 A I did not notice any defatting of her skin and 15 don't have a reduced sense of smell? 15 this was a subjective complaint and you can't measure 16 A They don't complain about a reduced sense of 16 defatting in any way I know of or observe it. It's 17 smell in my experience. 17 drying of the skin that's reported. 18 Q Let's move on to the next series of symptoms, 18 Q As you sit here now, do you remember whether 19 the dermal symptoms, page 13 of 13 of your summary. 19 her skin looked scaly and dry? 20 She complains of skin redness, dryness, itching 20 A No. I don't recall. 21 and rash on cheeks lasting for more than a month. Which 21 Q And the next sentence on page 13 and 13 says 22 if any of those symptoms are related to her exposure to 22 that Ms. McNeal's above-noted health problems have been 23 PAHs, dioxins and penta? 23 caused by exposure to chemicals from Koppers. 24 A I think I already indicated I don't see any 24 Now, the summary of problems we see on page 13 25 reason why she would have any skin problems. Cigarette of 13 in your report are all of the problems you 139 smoking doesn't do it and exposure to these chemicals 1 attribute to Ms. McNeal - all of the problem for Ms. 2 does, and I don't see any other contributing factor to McNeal that you attribute to her exposure to PAHs, penta 3 her skin complaints. 3 and dioxin? 4 Q Don't some people just have red, dry skin? 4 A Yes. 5 5 A Not most black people. Q We covered everything with Ms. McNeal? 6 Q So it's your opinion that the skin redness. 6 A Yes. 7 dryness and itching and rash were all caused by exposure 7 Q What sorts of problems would you expect of 8 to PAHs, dioxin and penta? 8 someone who had severe hypertension and smoked a pack of 9 A There are patients and even blacks that have an 9 cigarettes a day to have? Do the two factors working 10 unknown cause for their skin complaints, and they do 10 together cause any sorts of health effects? 11 occur, but in this case I don't have any known other 11 MR. LUNDY: Other than what he testified to 12 causes, and we do know these chemicals have an effect on 12 twice? 13 the skin, particularly the creosote and naphthalene and 13 BY MR. HOPP: 14 other particulates that dry and defat the skin. 14 Q Irrespective of chemical exposure. First, 15 Q The studies of creosote and napththalene and 15 severe high blood pressure and smoking a pack a day who 16 drying, those all looked at the application of creosote 16 doesn't live near a creosote plant, what sort of problems 17 to the skin; is that right? 17 would you expect that person to have? 18 A Yes. 18 A Cardiovascular problems, increased rate of 19 Q But that's a transitory effect? 19 heart disease, stroke, and she's got heart disease and 20 20 A No. The studies done even by the creosote congestive heart failure, which is not surprising. She's 21 industry show these skin changes are permanent. 21 got diabetes, which I quess is reasonably well 22 Q In humans or animals? 22 controlled, but she has cardiovascular disease and from 23 A Humans. 23 smoking I would expect her to have respiratory problems 24 Q What studies? 24 as we've stated. Her glucose when I saw her was 159 and 25 A Early studies that were done and they called 25 she has mild diabetes. 138

D

that with Patricia McNeal, and it wasn't a major part of Q I want to get -- and I'm not sure if there is 1 2 an answer to this or even studied. Smoking is risky 2 her problem and not a major part of this patient's 3 behavior and high blood pressure is a general health 3 problems, but we know there is an increased risk in diabetes in patients with dioxin exposures and that's a 4 problem. Have there been any studies that demonstrate 4 contributing factor to her health problems. In her case 5 what additional problems a person with high blood 6 pressure would have if she smoked? 6 the major thing is the breast cancer. A Well, the smoking and the high blood pressure 7 Q What are the other potential causes of breast 7 8 together increase the risk of cardiovascular disease. 8 cancer? What else causes breast cancer? Q And you testified about that. Anything else 9 A Well, there is now data that shows breast 9 10 you can think of? 10 cancer is increased in cigarette smokers. 11 A No, that's the main thing. Q Very recent data? 11 12 Q Let's move on to Kay Hobbs --12 A The last several years. There's animal data to 13 A As to Patricia McNeal -- I want to refer to Dr. 13 show the PAHs cause breast cancer, and there is evidence 14 O'Jile's report. She found that she had problems, 14 that the birth control pills can increase the risk of cognitive impairment, low intellectual functioning, 15 breast cancer. 15 abnormal neurologic tests, similar to what I found. 16 I'm not aware of any other factors, and there 16 17 You want to go to who --17 has been some attempt to find viruses that might increase 18 Q I know you referred to Dr. O'Jile, and I want 18 the risk, but those have not panned out, and the primary 19 to explore that thought, have you formed any additional thinking about breast cancer causation is it's due to 19 20 opinions with respect to Patricia McNeal after reviewing 20 endocrine disruption, and the breast cancer rate is 21 Dr. O'Jile's report or do the reports support what you 21 skyrocketing in the last 40 years in this country, and 22 previously --22 it's felt to be due to the introduction into our 23 23 environment of endocrine destructors such as PCBs, A They support what I previously stated. 24 Q Kay Hobbs. I'd like you to generally summarize 24 dioxins and other chemicals of that type. 25 your opinions with Kay Hobbs. 25 I think her exposures are really quite -- you 141 143 A In terms of her exposure or health effects from 1 know, it's classically related to the environment. The 2 the exposure? most striking thing is the early age that she and her 2 3 Q In terms of health effects from the exposure. 3 sister both contracted this disease, and it's not like 4 A Well, she has a picture very similar to Ms. 4 she had aunts and -- let me see if I can find what I'm 5 McNeal. She has neurologic, respiratory, autoimmune skin 5 looking for -- I'm trying to see her family history and I 6 problems and they share a great deal, as many of these 6 have to refresh my memory. 7 patients we will see do. 7 She did not have any other family members with 8 Q The difference with Kay Hobbs is she's deceased 8 breast cancer, except her sister. There was her father, 9 - or one of the differences? 9 I guess, the one who worked in the Koppers plant that 10 A We're talking about the health problems she had 10 developed lung cancer, and there is one other cancer in 11 during life, if you will. Her husband filled out the form the family but I'm not sure who it was. Anyway, she 11 12 for her. She was diabetic also and other significant 12 doesn't have a family history of breast cancer, except respiratory problems. She was a non-smoker and she had 13 13 she and her sister so that risk element is not present. 14 obviously breast cancer that metastasized to her lung and 14 Q The family history has been identified as a 15 brain. 15 risk factor for breast cancer; right? 16 The breast cancer was diagnosed in 1998 and we 16 A That's just what I've been saying. But she 17 have - she died of breast cancer at the age of 43. 17 didn't have that. 18 diagnosed at age 41. Her sister died a year before, at Q I've seen an indication in one of the records, 18 19 the age of 34, Sherrie Barnes. She lived in Carver and I'm not sure if this is accurate, that her father had 19 20 Circle between 1956 and 2000, basically all of her life. male breast cancer. Does that strike a cord with you? 20 21 and was married in 1974 at the age of 18, and her father 21 A I have it listed as lung. worked at Koppers and then Heathcraft, and I believe 22 22 Q We can look for it and talk about it tomorrow. 23 those are the factors caused by her exposure. 23 Does secondhand smoke increase the risk of 24 Q So diabetes and breast cancer? 24 breast cancer?

144

142

25

A Probably.

25

A Well, I think the diabetes -- I didn't mention

Q But for living where she did, would Kay Hobbs have developed breast cancer?

A Well, I think it's unlikely that she would have at this young age developed breast cancer. It's because I think the environment she grew up in and lived in was heavily, heavily polluted with potent carcinogens and that's what led to her very aggressive tumor at a very young age.

I mean, it's quite unusual to have cancer at this young age, and her sister had it even at a younger age and it's unusual to have it at this young age, which in itself is suggestive or indicative of high levels of exposure to carcinogens.

Q I want to point something out and drill it down a bit. I asked you whether Ms. Hobbs would have developed breast cancer had she not lived near the Koppers plant and your response took into consideration her age when she developed breast cancer.

Had she lived --

MR. LUNDY: I'll object to the form of your question, the characterization of his response. I think his response was it's highly unlikely. I think you have to quote him that she would have had cancer but for the environmental factors --

MR. HOPP: That's where I want to go.

studies we've done have corroborated.

In other words, the finding of a very carcinogenic environment with the testing and then finding patients like Ms. Hobbs living in the midst of this very dangerous environment, it's not surprising that she got cancer at an early age that was very resistant to treatment and died very quickly with metastatic disease.

This is all important for understanding why this environment needs to be remediated immediately.

Q And, again, I apologize if you answered or think you answered it and I didn't understand it.

If Ms. Hobbs had not lived near the Koppers plant, would she have developed breast cancer at all ever?

A I can't say one way or the other. I indicated that it's likely since there is no risk factor for developing breast cancer. If she developed any type of cancer, it's more likely like the general population at a much older age, but I'm not saying she would have. There is no way of saying that.

Q Can you say whether Ms. Hobbs developed breast cancer at an earlier age than she might have otherwise, as a result of her exposure to creosote, penta and dioxins?

A And I'll say it the fourth time, there are no

Q Had Ms. Hobbs lived longer, do you know whether she would have developed breast cancer irrespective of her exposure to the Koppers plant?

A I have no way of knowing that.

Q Is it your opinion that Ms. Hobbs developed breast cancer at an earlier age than she would have or might have otherwise as a result of her exposure?

MR. LUNDY: Objection; that's ignoring his previous response that he wouldn't know and so I object to the form of the question.

BY MR. HOPP:

Q I'll let the witness clarify his opinion.

A She has no risk factors for developing breast cancer, except for her exposures in the neighborhood. I think the point is there is a risk factor for cancer in general of age. After the age of 60, the rate of cancer of all types increases significantly in the United States. We have no way of saying that she might have developed it when she was 70 or 80 years old.

She has no risk factors for that and it's not an opinion! would hold that she would have, but the point is, in addition to the fact that she developed this tumor at an unusually early age, and her sister even earlier is indicative to my way of thinking of a highly carcinogenic environmental, which all the numbers and

other risk factors for breast cancer in this patient. MR. HOPP: Read back the question.

(Record read.)

BY MR. HOPP:

Q i don't understand how your answer is responsive to the question. Can you explain --

A I think the cause of her breast cancer was the exposure. I thought that was clear. I'm trying to be clearer.

Q If her father had breast cancer, would that be enough of a family history for you to believe that her family history might have contributed?

A That's not what the data and the literature shows. It shows increased risk associated with female family members. I don't know of any data that shows that male breast cancer is related in any way to higher risks in the daughters.

But remember, I think this is a father who worked in Koppers plant and he had all the risk factors that she had, and if it was,— male breast cancer is as rare as hen's teeth, and for him to have that is in itself remarkable and suggests why did he have breast cancer. I would think the answer is because he worked at Koppers and had all the exposures to increase the risk of mammary cancers.

1 Q Would there also be a genetic predisposition of 1 2 that? 2 A No. 3 A I'm not aware of any data to suggest that male 3 4 breast cancer is associated to genetic factors. Unlike 4 female breast cancer where there is some familial 5 6 aggravation. 6 Q You indicated male breast cancer is very rare. 7 7 8 Is it studied much? 8 9 A No. as a result of it being rare. 9 10 10 Q Let's move on to Derion Griffin. 11 A I looked at Dr. Wolfson's report on Kay Hobbs 11 12 and it confirms what I have stated, that there is no 12 husband. 13 other risk factors for the development of breast cancer. 13 14 Who is next? 15 Q Derion Griffin. 15 A I'm here. He's the little boy that's 9 years 16 16 old with hydrocephalus. 17 17 18 Q And what are your opinions with respect to the 18 19 medical conditions or symptoms that Derion Griffin has as 19 20 a result of exposure to PAH, dioxins and penta? 20 21 21 A Well, he has got, in addition to his 22 hydrocephalous, some of the same symptoms we saw in the 22 23 other two patients. Neurological symptoms, respiratory 24 symptoms, immune system problems, although limited just 24 25 to allergies in his case. 25 149

Q Do you remember meeting Derion Griffin?

Q Do you remember whether he was able to respond to your questions in order to fill out the questionnaire that you administered?

A No. He was not able to do that.

Q And his mother did that for him?

A Yes, and also gave the history.

Q And just going back to Kay Hobbs, obviously she is deceased and her husband filled out the guestionnaire?

A I have Walter Hobbs, and I believe that's the

Q Are you aware of any literature that is published on the reliability of health status questionnaires when they're filled out by someone other than the patient?

A Well, with children and this young man, even though he's 9, and some 9-year-olds can fill out questionnaires but usually a normal 9-year-old gets a lot of help from his parents and some adult or older child.

Children don't give reasonable questionnaires until probably up to 12, 14, 15 depending on the skill level of the child and understanding the process. I'm not surprised by his inability to fill it out.

Now, in terms of reliability, I'm not aware of

4

5

7

9

10

11

12

13

15

16

17

18

19

20

21

22

23

24

25

151

He has skin problems and, as I say, the most important is his hydrocephalous which is a developmental problem that I believe is a birth defect that he obtained from exposure to these various agents.

Q Would it be fair to characterize Derion Griffin as mentally retarded?

1 2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A Let's see what Dr. O'Jile said about his mental functioning. I think she did test him. She has got a detailed history of his gestation early years. She felt he was moderately to severely impaired and she felt that was superimposed on a background of extremely low intellectual functioning.

He has deficits in adaptive functioning and areas where he did better, and some areas of relative strength, including general fund of information. vocabulary and simple attention, assembling puzzles and receptive vocabulary and drawing of simple figures, gross psycho-motor speed and calculation and with continued supervision throughout his life and given his functioning levels, expectations regarding his education and occupational abilities are low.

In your answer to your question, he appears to be at a level where his ability to function in the labor market and to benefit from education is very, very limited.

any peer-reviewed study that directly answered that question, and, from my own experience, I think what I found is the mothers tend to be reasonably good observers of their children.

However, in this case, the mother has got a problem with memory herself because she lives in the environment and there are a number of discrepancies between what she said on different occasions about her son. That's I think reflecting her low functioning level in terms of memory and integration of data.

I think if we were to ask the question does this young man have a neurological problem, I don't think anybody would argue he does. Somebody who had hydrocephalous and a shunt placed frequently have problems with cognition and development of the brain.

He has apparent respiratory problems and he's complained about it and has been treated for it. Let me see if I got what I - the medical records here. It's mainly focused on the neurologic, but he had pulmonary hemorrhages, which is, I guess, another health problem diagnosed in 1995.

When he was born he had to be intubated and he's been on theophylline which is a medicine for respiratory problems like asthma. So there is some objective backing in the records of health problems of

1 the type the mother describes, albeit somewhat limited. 1 A 40. 2 Q The question, though, went towards the 2 O 40 weeks gestation? 3 reliability of her responses, and you'll admit, will you 3 4 not, that when someone's medical history is filtered 4 Q How many weeks gestation did Derion Griffin 5 through another person, there is a risk of some 5 have? 6 discrepancies in the data that's unreliable? 6 A Well, it's estimated that he had about 22 to 24 7 A 1'd agree. But the important point here is 7 weeks of gestation. That's the estimate. 8 when we look at this patient in the context of all the 8 Q What's the general survival rate of an infant 9 other patients we see, when she says he has cough and 9 born at 22 weeks' gestation? 10 brings up phlegm and sometimes he has -- what does she 10 A Very poor. I don't know the statistics but describe here - sinusitis, it tends to be credible 11 11 most of the children born that small don't make it. 12 because we can see it in the context of all the other 12 Q It's amazing he's alive at all, isn't it? 13 people in the neighborhood who have similar complaints 13 A It's quite a tribute to the skills of the 14 and due to the heavy contaminations in these homes, it's 14 neonatologist. He was in the hospital for 92 days. 15 not surprising the people have these complaints. 15 Q Immediately following Derion Griffin's birth, 16 So taking all the factors into consideration, I 16 do you know how much time he spent without any medical 17 think it becomes reasonable to believe - I mean she 17 care? 18 doesn't answer all the questions as abnormal, and she has 18 A After he left the hospital? 19 many she claims he never had on the questionnaire, and at 19 Q After he was born. Didn't they think he was least internally and externally putting it all together, 20 dead for a while? 21 it's consistent with the pattern that we're seeing in 21 A They said earlier they intubated him right 22 this group of people. 22 away, and he was not breathing and had to breathe for 23 Q At least in Derion Griffin's case you can look 23 him. He weight a pound and 11 ounces. He was under two 24 at his medical records and find out what his measured 24 pounds and a very, very small baby. 25 problems are; correct? 25 Q Do you know how long a time lag there was 153 155 A Yes. between the time Derion was actually delivered and when 1 2 Q But the question was broader and deals with Kay 2 intubated? 3 Hobbs and Derion Griffin --3 A No, I don't have -- his APGAR score was 1 so A Remember Derion was born prematurely --4 4 that means he was not breathing and they had to 5 Q I will ask you that in a minute and let me 5 resuscitate him. Obviously they resuscitated him, and finish the question. With respect to Kay Hobbs, her 6 how long he was lying pulse-less or not breathing, I husband filled out the form? 7 don't know. 8 8 Q Do you know how long it was between the time 9 Q And she's been dead for 5 years or so - for 4 9 Derion was born and the time he was air-lifted to another years by the time he filled out the form? 10 10 hospital for special care? 11 A Yes. 11 A It only says he was taken and I don't have 12 Q And there is a concern that when someone else 12 minutes or duration of the treatment at the local 13 fills out the form that some data gets lost and some 13 hospital. questions may be answered inaccurately? 14 14 Q Are you in a position to give opinions with 15 A I think that's a fair statement. 15 respect to the effect that Derion's medical care in the 16 Q With respect to Derion, he has a list of 16 first hours of his life had on his condition later in 17 medical records which you relate back to, it sounds like, 17 life? 18 primarily to his hydrocephalous? 18 A It seemed to me that it was a miracle that he 19 A Hydrocephalous was sort of his ongoing 19 survived so his medical care couldn't be too bad. If diagnosis but remember he had a very stormy entrance into 20 20 you're asking if they didn't-intubate him quickly enough 21 life. 21 and allowed anoxic injury to occur due to malpractice, ! 22 Q Let's talk about that. He was -- let me ask a 22 don't have an opinion about that. There's nothing in the 23 foundational question. 23 record to suggest that they did anything other than the 24 How many weeks is considered term for an 24 best that they can do for this baby. 25 infant? 25 Q I would never suggest otherwise, but do you

156

know whether there was an injury that Derion sustained -leaving malpractice out of this completely -- whether there was an injury he sustained because of a lack of oxygen after his birth due to the fact that he was not intubated quickly?

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A It says he had apnea of prematurity, and he was not breathing because he was so premature and his breathing mechanisms were not working and I don't know how many minutes it was --

Q You're reading Dr. Wolfson's summary?

A Yes. My summary doesn't have any information about that either. I mean, I just don't know what to tell you.

Q That's fair. But you're not taking that issue into account with respect to your opinions? That is you're not factoring in the notion that he might have been caused an injury by the failure of the medical staff to intubate him early in life?

A There is no question that he had anoxia and that he was not breathing. How many minutes without oxygen is not clear from the record. Very premature babies like this do, in fact, have anoxia by definition and getting the oxygen into the blood stream so they survive when separated from the mother is very important. 25 If there is a prolonged period of anoxia that can cause

Q Why was Derion Griffin born prematurely?

A Well, there is a powerful risk factor which we know about and that's his exposure to PAHs. Some very elegant studies have now been done by Dr. Perera on PAH levels in the cord blood and small gestational age could occur and apply here and also prematurely. That's the mechanism that cigarette smoking mother have smaller babies is because of the PAHs in cigarettes.

They've now shown that PAHs in the environment -- Dr. Perera's studies of babies in Poland, which has a lot of PAH contamination, showed a very strong correlation of the PAH content of the mother and the prematurity of the baby, and I think in this case we have a strong link to PAH levels present in Ms. Griffin, Derion's mother, and the development of this premature

Q The mother is Jennifer Griffin; right?

A Yes.

1

2

3

6

7

8

9

10

11

12

13

14

15

16

17

18

19 20

21

22

23

24

25

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

157

Q Do you know how many other pre-term babies Jennifer Griffin had?

A Her other child Rahaeem was 7 months' gestation and born two months early and weighted 5 pounds and was not nearly as premature or as small as the brother.

Q Do you know how many full-term babies Jennifer Griffin has had?

159

permanent brain damage. But I have no reason to know that happened or didn't happen.

I think there was also the question of hemorrhages at the time of birth and definitely a pulmonary hemorrhage, but I think there was also a question about bleeding into the brain, which is common in these children.

One of the children we saw in Columbus, Mississippi was very premature like this, and he had pulmonary hemorrhage that resulted in severe mental changes. Very premature babies like this generally have a lot of problems and one of them is anoxia and one of the mechanisms by which they get problems.

Q I understand your answer but I need to go back to my question.

Is it accurate to say that you're not taking into account for the purpose of your opinions any knowledge or assumption with regard to how long Derion went without intubation after he was born?

A As I said, I don't have any information how many minutes it was.

Q And you assume he received the appropriate medical treatment for a baby his size and age?

A I believe so, yes. I believe they tried their best to do what they could for this baby.

1 A No. I don't have that information in front of 2 me.

Q If Jennifer Griffin was heavily exposed to PAHs, would you expect all her babies to be born prematurely?

A It depends on the dose she sustained during the pregnancy and other factors, such as nutrition and other factors, so she could have a normal term baby.

Q Are there other factors besides PAHs which would contribute to Ms. Griffin for not carrying babies to full term?

A Well, she certainly was not old and she was 23 when she had Derion and age is not a factor. She's not a drinker -- well, she may be -- I don't have her history here, I have Derion's history. So I would have to say that there may be some contribution from other factors but I have not got them identified here at this point.

Q Is narcotics abuse a risk factor for delivering pre-term babies?

A By narcotics I guess you mean heroin?

Q More cocaine or amphetamines.

A Cocaine is a risk factor for having premature babies. Amphetamines, I don't know if it is or not.

Q What other risk factors are there generally for pre-term babies?

160

A Smoking cigarettes, heavy drinking, alcohol, consequence of severe prematurity in and of itself. 2 probably drugs, if abused, probably would be on that 2 Q Any others? 3 list, cocaine being one associated with problems of early 3 A No. 4 delivery and small babies. I'm not recalling off hand 4 Q Now, we've described Derion many time as other risk factors and I'm sure there are others. Older 5 hydrocephalic; correct? 6 mothers, and a family history of reproductive problems. 6 A Correct. That's a diagnosis made early on in 7 7 some kind of genetic factors that play a role. That's his life. 8 all I can think of at the moment. 8 Q in layman's terms, what does that mean? 9 Q Are even some young women genetically 9 A It means there is a blockage to the drainage of 10 predisposed to deliver early? 10 the fluid in the brain, and they have to put a shunt in 11 A Well, with the family history of say the 11 to relieve that pressure to create an artificial relief 12 mothers, sisters, aunts, grandparents and the mother 12 valve so that the fluid in the brain doesn't build up and 13 having a history, it could be suggestive of a genetic 13 create the condition known as hydrocephalous, which is 14 effect and it can effect a younger woman. 14 water on the brain, and if that blockage occurs and is 15 Q Ms. Griffin's medical records indicate that she 15 not treated, the head becomes very large and squeezes the 16 had a very early pregnancy of her first, which was 16 brain and becomes severely retarded. 17 terminated either spontaneously or otherwise? 17 Q It's the actual physical squeezing of the brain 18 A Correct. 18 down towards the opening of the base of the skull which 19 Q Spontaneous or an intentional abortion and 19 causes the retardation; is that right? 20 we're not sure which; is that right? 20 A Well, the pressure of the whole brain prevents 21 A As I understand it, it was probably an induced 21 the growing and developing process. 22 abortion but it might have been spontaneous. I'm not 22 Q It's a physical insult to the brain? 23 certain, 23 A It's a physical problem and it's solved by 24 Q In any event, having an abortion at a very 24 putting the shunt in. 25 young age -- I believe she was in her early teens --25 Q Now, we began by talking about Derion Griffin's 161 163 would that predispose someone to have pre-term babies 1 health problems being related to PAH exposure, and I want 2 later? 2 to make sure we've completed that. 3 A No. 3 We talked about neurological problems and 4 Q Is there any epidemiological literature that 4 respiratory problems. Are there any other problems that 5 you're aware of on the effect of an abortion at a young 5 Derion Griffin has that you believe are related to PAHs, age on later pregnancies? 6 dioxins or penta? 7 7 A I think there is a study there that suggests A i think I've indicated that he's got a picture 8 that there is an increased risk but I don't think it's 8 similar to the other people living in the neighborhood, 9 been borne out. I think there are many other studies respiratory, skin, neurologic problems, and in addition 10 that suggest that is not true. 10 to the extreme prematurity, he's been insulted by 11 Q Let's assume that Ms. Griffin did not have any 11 additional exposures during early life in living in this 12 PAH or dioxin exposure and yet delivered a baby at 27 12 environment. 13 weeks ---13 Q On page 9 of 9 of your summary of Derion 14 A 22 to 24. 14 Griffin, you identify dermal problems? 15 Q 22 to 24 weeks, what health problems would you 15 A Yes, as reported by his mother. 16 expect a baby who is born at that early a gestational age 16 Q Are those related to the Koppers plant? 17 to have, irrespective of PAH and dioxin exposure? 17 A I believe so. I didn't identify any other 18 A Just the prematurity alone increases their risk 18 reason for the skin problems. 19 for developing developmental problems, achieving at 19 Q Do you think he'd have skin problems but for 20 school and developing the brain to its full maximal 20 exposure to the Koppers plant or the PAHs, dioxins and 21 capacity, and they're more prone to various respiratory 21 penta? 22 problems. 22 A There is no reason to think otherwise and there 23 Q So intellectual achievement and respiratory 23 is no other exposure to skin irritation, skin altering 24 problems? 24 materials, and he has sort of a nonspecific skin 25 A Those are the two that come to mind as a 25 complaint similar to what we've seen in our studies in 162 164

	<del></del>		
1	Columbus and the patterns that we see here in Grenada.	1	A Yes.
2	Q The next item this is on page 9 after skin	2	Q Lack of concentration, that was reported by the
3	problems is that chemicals from Koppers are known to	3	mother?
4	cause cancer, lung disease, gastrointestinal disease,	4	A Yes.
5	liver disfunction, autoimmune diseases, kidney problems,	5	Q Decreased short-term memory was reported by the
6	reproductive disorders, miscarriages, birth defects,	6	mother?
7	premature birth, low birth weight and many other diseases	7	A Yes.
8	and poor health.	8	Q Decreased long-term memory was reported by the
9	Other than the low birth weight and premature	9	mother?
10	birth, which of these problems does Derion have now?	10	A Yes.
11	A I think we're talking about the neurologic	11	Q Slurred speech, did you actually hear him
12	problems I alluded to, but I don't think that was on the	12	speak?
13	list you just read, but I'd say in the next paragraph I	13	A He never really spoke. When I was talking to
14	talk about his neurological problems.	14	him, he would barely respond to commands. When I asked
15	Q So Derion doesn't have cancer currently?	15	him to sit on the table or asked him to keep his eyes
16	A Correct.	16	open, he wouldn't even do that. He's not very
17	Q Or lung disease or gastrointestinal disease?	17	communicative, so I did not observe any speech at all.
18	A Well, he has wheezing, shortness of breath, dry	18	Q Next is respiratory problems, and you have a
19	cough, productive cough, so I think he does have chronic	19	list of respiratory problems, and those you believe were
20	bronchitis and probably a touch of asthma.	20	caused by his exposure to PAHs or dioxins?
21	Q Does he have gastrointestinal disease?	21	A Yes. There is no doubt that prematurity, as I
22	A I didn't identify any GI complaints.	22	stated, increases the risk of having respiratory
23	Q Does he have liver dysfunction?	23	conditions later, but the interaction between the
24	A Not that I identified.	24	environmental poliution with his premature lung and
25	Q Does he have kidney problems?	25	respiratory system, I think the combination is why he has
[~	165		167
L_			
1	A Not that I identified.	1	these continuing problems.
2	Q He doesn't have a reproduction disorder, does	2	Q But for exposure to PAHs, penta and dioxins, do
3	he?	3	you think Derion Griffin would have the same respiratory
4	A No.	4	symptoms?
5	Q Obviously, he's not prone to miscarriage;	5	A I don't think he'd have the same respiratory
6	correct?	6	symptoms, as a result of his prematurity, which I think
7	A Correct.	7	is a result of his exposures. In a way it's kind of
8	Q In the neurological complaints, you've	8	going in a circle.
9	indicated blurred vision, eye irritation, headache, loss	9	But you're saying in the absence of his
10	of balance, irritability, lack of concentration,	10	exposure post-delivery, after coming home from the
111	decreased short-term memory, decreased long-term memory,	11	hospital?
12	lack of coordination and slurred speech; correct?	12	Q Right. Would he have these problems?
13	A Yes.	13	A I don't know. It's difficult to say whether
14	Q Those are all reported by his mother?	14	prematurity alone would have caused any of his current
15	A Yes. And also they were observed. When he	15	problems. It's possible.
16	tried to stand with his feet together, he tended to fall.	16	Q But children who are premature and don't live
17	He was very poorly coordinated and that's something !		near the Koppers plant also have asthma and respiratory
18	observed in my physical exam.	17	
19	Q How do you know he has blurred vision?	18	problems?
20	·	19	A Yes, they do.
	A That was reported by his mother.  O Same with eve initiation?	20	Q Is childhood asthma something of an epidemic in
21	Q Same with eye irritation?	21	this country?
22	A Yes.	22	A Yes.
23	Q Headaches were reported by his mother?	23	Q Why is that, do you know?
24	A Yes.	24	A I think most scientists who are studying it
25	Q Irritability was reported by the mother?	25	believe it's due to the environmental pollutants that we
1	166	1	. 168
•			

have in our environment. Studies done over the last five exposed mean dioxin and the unexposed mean dioxin for years by Dr. Peters at U.S.C. clearly demonstrate that 2 several individual congeners; is that correct? 3 A Yes. the increased rate of asthma in the Los Angeles basin is related to the oxidant load present in their 4 Q Where did the unexposed mean dioxin levels you neighborhood. 5 report on table 5 come from? 6 6 Q So is it possible for you to opine that Derion A I believe these were Greenville, Mississippi, 7 Griffin would have had the same respiratory problems that 7 if I remember correctly. I'm pretty sure that's what it 8 he does if he had not lived in the neighborhood he does? 8 is. 9 9 A Well, if he lived in east L.A., one of the Q On another point in your report, and I know 10 polluted neighborhoods, he might have. But even then the 10 you're looking for it, and this is page 83, you mentioned 11 rate is 12, 15 percent in high-risk neighborhoods. 11 controls Dallas equals 200. 12 But he lived in Grenada, Mississippi. If he 12 A That's one set of controls, and I'm trying to lived in a non-polluted area, he probably would not have 13 13 remember which control values I used here. Page 83 --14 a high oxidant load because Grenada does not have a lot 14 that's pentachlorophenol. We didn't do pentachlorophenol 15 of smog buildup of pollutants like we do here in 15 in the Greenville people. We did dioxins and furans on 16 Los Angeles. 16 them. This Dallas control value is for PCP, 17 17 So, I mean, each person has their own unique pentachlorophenol. This is Greenville, Mississippi where 18 situation. But the epidemic of asthma you talk about is 18 we did -- I think we did a total of 30 people. 19 more of a problem where there is actually some 19 Q Have you produced the results for the unexposed 20 20 identifiable causes. It's not happening by magic and controls, that is the lab reports that show what the 21 there is a reason. Same with Derion. He and his 21 various detections were --22 neighbors are so sick and it's because of a reason. 22 A I think we redacted the names but I think we 23 Q I have a nephew that lives in Hinckley, 23 gave you the data from - this was done at AXYS 24 Illinois, which is in the middle of corn fields and 24 Laboratories. 25 soybean fields and he has childhood asthma. Q That's the AXYS lab report? 169 171 Child get asthma irrespective of exposures: 1 1 2 correct? 2 Q Are you familiar with a scientist named Arnold 3 A Well, you just described a fairly polluted 3 Schecter? 4 environment. I would not say living in the middle of a 4 A Yes. 5 comfield was free of all chemical agents by any means. 5 Q He has done some work on identifying levels of 6 My cousin farms a few thousands acres of corn in the 6 dioxin in people's blood; is that right? 7 7 middle of Nebraska and they use a lot of chemicals on A Yes. 8 those comfields. 8 Q And, in fact, you have relied on Dr. Schecter's 9 9 Q Are those the sort of children that get work? 10 10 childhood asthma, children in agricultural areas? A He's one of the co-authors of our Columbus A It certainly happens, yes. 11 11 paper. 12 Q And children that live in cities --12 Q Let me mark this deposition Exhibit 2. 13 A They get it for other reasons. 13 (Defendants' Exhibit 1 and 2 was marked for 14 Q How about the suburbs? 14 identification by the court reporter.) 15 A Not everybody has asthma, and there is some 15 BY MR. HOPP: 16 interaction there. Cause and effect. 16 Q Let me show you what's marked deposition 17 Q In the time you have left -- you want to leave 17 Exhibit 2, a paper authored by Dr. Schecter. 18 at 4:00 o'clock? 18 Have you seen deposition Exhibit 2 before? 19 A Right. 19 A Have I seen this paper before? 20 Q I want to switch to another subject and try to 20 Q Yes. 21 21 move into something else. A This is a poster he presented at - I think the 22 In your report you talk about dioxin exposures. 22 dioxin meetings back in probably '99 or something like 23 You did blood tests on 29 people for dioxin? 23 that. The values here are from -- well, let's see. The 24 A That's correct. 24 German values were '89 and '94 and the U.S. values were 25 Q And then you report in, I believe, table 5 the 25 up through '96, it looks like, blood samples.

172

Q Are you familiar with what Dr. Schecter did to 1 1 unpublished values are the same as what we see in the 2 obtain his U.S. values, where he went and got the blood published paper? 3 A Well, I can probably dig around and find out. 3 and how many people contributed to the blood --4 If you're talking about the poster that he made --4 A Does he say here? Q He does but I was wondering if you know the 5 Q Exhibit 2. 5 6 A Whether those are the same as he gave me 6 story. 7 A Well, he collected blood samples from patients before? 7 8 all over the place. I don't remember where he did this 8 Q Right. one. He writes that "We collected and pooled samples 9 A I don't know. 9 from a young population, N=100, and an older population, 10 Q Is there any reason he would give you one set 10 11 of numbers and published a different set? 11 N=100. These were from left-over samples at a Texas 12 hospital which were collected for this study anonymously 12 A I don't think he would have, but I haven't and which were ready to be discarded after the medical 13 checked. 13 14 Q Let's mark this as deposition Exhibit 3. 14 testing had been performed." 15 This is the 200 patients that we used as a 15 (Defendants' Exhibit 3 was marked for comparison group for our study in Columbus. 16 16 identification by the court reporter.) BY MR. HOPP: Q You've seen these numbers before and know about 17 17 the set of 200 people who contributed to the pooled blood Q Do you recognize Exhibit 3? 18 18 19 19 samples that Dr. Schecter used? A Yes. 20 20 A Yes, I did. Q What is deposition Exhibit 3? 21 21 A Well, it's the paper we presented I believe in Q Was Dr. Schecter's purpose, to the extent you 22 understand it, to obtain a sort of control value for 22 2004. 23 Q You and Dr. Schecter and Olaf Paepke, among various congeners of dioxins in people's blood in the 23 24 others, authored this paper? 24 United States? 25 A That's correct. 25 A Yes, that's the purpose. 175 173 1 Q Was the idea, with the Dallas control 1 Q And does this paper relate to your study of health effects or at least dioxins and DNA adduct levels 2 population, that they were unexposed or were unknown 2 exposure levels? 3 for the Grenada, Mississippi cohort? 3 4 4 A I think unknown exposure. We know they were A Yes. 5 coming to the hospital and they were sick or most likely 5 Q in 2004 when you presented this paper, you had a list of exposed residents and we see No. 29 and that's were sick with something, otherwise they would not have 6 7 7 the number you got from Grenada; right? been in the hospital having blood drawn, and they were 8 what I call a sick population. 8 A Yes. 9 Q And you used these numbers -- Dr. Schecter's 9 Q And the report has mean concentration range? numbers from his 2000 paper in studies you've done and 10 10 11 papers you've written on dioxin exposure; is that right? 11 Q Then we have the Controls-Dallas, N=200? 12 12 A Yes. 13 Q You've reported this Dallas cohort as your 13 Q Those are Dr. Schecter controls? 14 control population? 14 A Yes. 15 15 Q Let's look at deposition Exhibit 1, table 5 A Yes. Q Do you have any sort of special access to Dr. from your report. 16 16 17 Schecter's raw data? 17 Why are the control values different? 18 A No. He just supplied me with the numbers, the 18 A I said they're from Greenville, Mississippi. Q So you published a paper with Dallas controls 19 pooled sample numbers. 19 20 Q You rely on Dr. Schecter's published numbers; 20 and then in your expert report, in this case, you used is that right? 21 21 Greenville, Mississippi controls; correct? 22 A Well, I don't -- he sent me the table with the 22 A That's correct. 23 numbers and I didn't go check and make sure they're the 23 Q Why? 24 same as the published paper. 24 A Well, because as Dr. Schecter and I reported 25 Q You don't know whether Dr. Schecter's 25 this month in the Journal of Occupational and 176 174

(

Environmental Medicine, the results in 2005 were at the Dallas values and the decline over time, it fits 2 significantly lower in general population than in 1998, 2 nicely. It seems like very logical - the decline is not 3 and that 6-year difference means that you've got to 3 great but continuing. redraw and remeasure. 4 Q So the Platte Chemical plaintiffs chose their 5 5 These Greenville, Mississippi patients were own controls? 6 6 done contemporaneously or closer in time, in 2004, the A We identified people who matched them and gave 7 same year we did the controls. 7 them questionnaire and made sure we knew everything about them. We asked them to identify someone similar to 8 Number two, they were done in a Mississippi 8 9 town similar in size and other factors to Greenville to 9 themselves but did not live in that neighborhood. 10 make a better control. 10 Q Have you ever done that in another case? 11 Number three, we had questionnaire data on 11 A It's a common way of doing controls. 12 these people and we knew they didn't have any reason to 12 Q Have you ever done it in any other case? 13 have high values and didn't work in a place or live in a 13 A No. We did it at the suggestion of our 14 place where they have high dioxins so they'd be a better 14 epidemiologist. 15 control. 15 Q Who is that? 16 The values are lower. The TCDD is not 16 A Anderson. Q What's the first name? 17 detectable. Many of the values are lower, as we just 17 18 reported in the JOEM, reflecting the fact that there is a 18 A Pamela Anderson. 19 decline in the general population of dioxin levels. 19 MR. HOPP: We can mark this as 4. 20 Q In the JOEM, when you reported the general 20 (Defendants' Exhibit 4 was marked for 21 21 decline in the dioxin levels, would you say that in the identification by the court reporter.) 22 last five years the general dioxin levels in the U.S. 22 BY MR. HOPP: 23 have declined by half? 23 Q Do you recognize deposition Exhibit 4? 24 24 A It's down by something in that order of A Yes. 25 magnitude or greater. It depends how far back you go. I 25 Q What's deposition Exhibit 4? 179 1 think we just reported they're down 83 percent from what 1 A That's our exposure assessment paper for 2 they were 20, 25 years ago. 2 Columbus, Mississippi. 3 Q Now, Greenville, Mississippi, aren't you 3 Q In your exposure assessment for Columbus, 4 involved in litigation in Greenville? 4 Mississippi, you also report control values for TCDDs? 5 A Yes. 5 A Yes. Q The Platte chemical case? 6 6 Q And various other congeners of dioxin; correct? 7 7 Look at table 2, page 104. 8 Q How were the Greenville, Mississippi controls 8 A Right. 9 selected? 9 Q And you rely on Dr. Schecter's Dallas cohort; 10 A Originally, one of the other experts in the 10 is that correct? case wanted to do dioxin levels in Greenville because he 11 11 A Yes. That's what it says here. We utilized 12 suspected there might be dioxins present, and we picked! 12 the Dallas controls as one of the comparisons we made. 13 think about 20 people who lived close to the Platte 13 Q And Dr. Schecter's paper, which we marked as 14 Chemical plant. 14 deposition Exhibit 2, was published prior to your 15 Then we had them identify a friend or relative 15 exposure assessment published in 2003; is that correct? 16 who lived somewhere in Greenville, but far away from the 16 A Correct. plant who was otherwise the same age, sex, social 17 17 Q Let's flip to Dr. Schecter's paper, deposition 18 economic level, and we matched them with the 20 people. 18 Exhibit 2, and leave Exhibit 4 open to page 104. 19 Then we took those two groups and divided them 19 A All right. You want to look at table 5 in this into ten and pooled ten samples, and ran two samples of 20 20 one? 21 our non-exposed Platte Chemical and a group of 20 pooled 21 Q Table 2 in both documents. Now, in Dr. 22 groups of ten who lived close to Platte Chemical. 22 Schecter's paper, the 2000 paper, he reports two 23 The results in all four groups were identical 23 different values for the Dallas cohort? 24 and gave these values, and so we assumed there was no

180

Q And looking at specifically TCDD, he reports

178

24

25

dioxin exposure going on in this group and, if you look

A Yes.

4.3 and 4.2. 1 MR. HOPP: And we'll send a request, but I'd 2 Do you see that? like to make a request on the record that we at least get that bit of it. I'd like Dr. Schecter's set of numbers. 3 A Yes. Q And your paper from 2003, you report on table I'd like to see those. 4 5 2, General Population Dallas; Schecter 2000, N=200, a 5 Let's mark this Exhibit 5. 6 value of TCDDs of 2.6? 6 (Defendants' Exhibit 5 was marked for 7 7 A Yes. identification by the court reporter.) 8 Q How did you go from Dr. Schecter's values to 8 BY MR. HOPP: 9 9 vour values? Q Deposition Exhibit 5, can you tell me what it 10 A I don't know. I don't see how you can combine 10 is? 11 A Let's see when did we do this one. I think 11 those to get to 200 and have a value to be lower, and I have to ask Dr. Schecter why the discrepancy. 12 this is a paper we presented at the dioxin meeting 2001. 12 13 I do have an explanation, which I think may be 13 I'm not sure about that, but I believe we did. It's the that the 200 people we got were different than the 200 14 same values we had in the paper. 14 15 people in this group, and that's one possibility. Q Let's look at that. There is no table number. 15 16 Q This is the second Dallas control group of 200 16 The table in deposition Exhibit 5 which list dioxin 17 people? 17 congeners -A Yes, A Yes. In this case he had a hundred young 18 18 Q Again, you have control values, General 19 people and a hundred older people, and in this group he 19 20 didn't make that distinction of age and lumped them all 20 Population Dallas; Schecter 2000, and you have numbers 21 different from the numbers in the Schecter 2000 paper. 21 together, I suspect. I'd have to check with him but I suspect it's two different groups he's pooled. 22 Do you see that? 22 23 23 A Yes, these are the same ones that we had in our He has a deal with the lab there at UT 24 Southwestern and he can get discarded blood fairly 24 paper we were just looking at. 25 easily, so when he pools it, he sends it to Dr. Paepke 25 Q They're the same for the 2003 paper, except for 181 183 in Germany and he runs it for him. And just looking at one. Let's look at control value for 1,2,3,7,8 PeCDD. 1 1 2 these numbers that are consistently lower, I would think 2 Do you see that? 3 they were probably drawn at a later time. 3 A Yes. 6.3? 4 4 Q I'm looking at the control value in the 2000 Q So you think -paper -- in the 2003 paper, deposition Exhibit 4, the 5 A That's -- I have to ask him. 5 6 Q So you think at some other point in 2000, Dr. 6 control value is point 05? 7 Schecter developed another cohort of 200 people that he 7 A For the penta? 8 had evaluated? 8 Q 2,3,7,8 penta. 9 A Yes. In other words, the Schecter references 9 A Yes. 6.3 for the control value -- same on 10 10 that I give here -- I have to ask him about that. I both. don't know how to explain the discrepancy at this moment. 11 Q We're looking at two different numbers. Let 11 12 Q What's the Schecter reference that you give in 12 me --13 your 2000 paper? 13 A Just point it out --14 14 A There are several Schecter references but none Q This number here. Do you see that? 15 of them are 2000. 15 A All right. 16 Q So you don't cite Dr. Schecter's 2000 paper in 16 Q It's see point 05 on the 2003 paper, and in 17 your 2003 paper in environmental research? your paper that we have designated Exhibit 5 it is point 17 A No. This was personal communication. I'm 5, so we're off by an order of magnitude; correct? 18 18 19 guessing now that these are values he collected in 2000, 19 A That's right. But it's probably a typo because 20 and others were collected in -- it looks like 1996, four 20 all the other numbers, including the TEQs, are the same 21 years before. and it's just a typo. 21 22 Q Somewhere in your office, in your possession, 22 Q Which document is correct? 23 do you have a file of materials that provided the backup 23 A Oh, I suspect it's the point 5 rather than for your 2003 paper? 24 point 05. The detection limits are such that it's not **2**5 A Yes. 25 likely to be point 05. I think point 5 is the correct 182 184

one. The TEQ value or the TEF value really is point 05 1 A Yes. 2 and someone just transposed the number. 2 Q I'd like a copy of the backup for the control 3 Q You think someone made a transcription error? 3 values for that paper, and I'll sent a written request. 4 A I think so. If you go down to the total TEQs 4 Why in 2004 were you reporting 5-year-old and the other totals, they're the same. Yes -- if it was 5 control population data in your paper on the 9/11 World 6 an error, it was carried through -- it's just a typo. 6 Trade Center rescue workers and reporting more recent 7 Q If would change the TEQ? 7 data for the Greenville - Grenada population? 8 A Yes, if it was anything other than that. 8 A I got the Greenville data after we submitted 9 (Defendants' Exhibit 6 was marked for 9 this paper, so I didn't have the Greenville controls for 10 identification by the court reporter.) 10 the firemen, and we didn't have a good control for the 11 BY MR. HOPP: 11 firemen, anyway, and we used -- given the fact it 12 Q You have deposition 6 in front of you? 12 references this document, but they don't match, and what 13 A Yes. 13 I see here is values that are very similar to what is 14 Q What is that? 14 listed here -- they're in the same order of magnitude but 15 A A presentation that I made in Berlin in 15 not identical. 16 September of 2004. 16 Q They're different? 17 Q Look at table 1, page 2844. 17 A The TEQ's are quite high. 18 A Okav. 18 Q In the unexposed population? 19 Q You have your exposed population control and 19 A I know what it is. The PCBs are not done here. 20 then a control equals 100 population. 20 This is Paepke's normals and this reference should 21 Do you see that? 21 reflect Paepke's -- as I said, these are normals he sent 22 A Yes. 22 along with the reports on these firemen, and that's --Q Where did the control values come from in the 23 23 well, I have to dig into this and figure out exactly what 24 paper we have as Exhibit 6? 24 he did here, but I believe that the controls were not 25 25 A Well, this was yet a different set published by from this 2000 paper. 185 187 Paepke. He gave us, along with the reports in this case, 1 Q Once again, I'd like to see the control data 2 he gave us this. This is his reference population for 2 that Dr. Paepke supplied to you. 3 that set of bloods. So we didn't use the same control 3 A These pages do refer to this but the numbers 4 values. They're similar and a little higher on the TCDD don't match. 4 5 but similar, in general, to what we've had here. 5 Q The citation is to Dr. Paepke's and Dr. 6 Q So the citation - and correct me if I'm wrong 6 Schecter's 2000 paper? 7 -- the citation for the control values in deposition 7 A Let's see. If we look over here to -- no, it 8 Exhibit 6 -- I believe it's footnote 5 -- which is 8 still doesn't match. I'll get to the bottom of this. 9 Schecter, A.J.Paepke O. And Piskac A.L. (2000) 9 Q In your table number 5 for the Grenada cohort. 10 Organohalogen Compounds 48,68-71. 10 your mean control value for TCDD is non-detect? 11 Do you see that? 11 A Yes. A Yes. That's the citation we were talking about 12 Q For clarity of the record, that means in 12 13 earlier, isn't it? 13 whatever lab report you got back on your controls there Q Deposition Exhibit 2 --14 was no TCDD detected in anybody's blood? 14 15 A This is the older and definitely out of date 15 A Yes. 16 values but again it doesn't quite match. 16 Q Have you ever seen an absence of TCDDs in a 17 Q Doesn't match up at all, does it? 17 sample of 29 people? 18 A No, it doesn't. 18 A Well, there is four pooled samples, and this is 19 Q Why is that? 19 our unexposed controls in Greenville, and it depends what 20 A Like I said, these values were from Paepke, and 20 your detection limits are and they're getting -- as I 21 he gave us these values as a reference range. So I 21 said, PCB levels are dropping significantly in the United 22 suspect, given how high they are, they're German values. 22 States and getting close to detection level and, even 23 Q Do you have somewhere a file of backup 23 though I've not seen it before, I believe it's position. 24 materials for your paper on Persistent Organic Pollutants 24 Q What was the detection limit you used for your 25 in the 9/11 World Trade Center rescue workers? 25 control population that you see reflected on --186 188

1 A I have to get out the reports from the lab to see reflected in deposition Exhibit 4? 2 A Well, he helped us write the paperwork on it, 2 answer that. I don't have that information. and I don't remember specifically what he did but he 3 Q We'll look at that information tomorrow and 3 4 we're almost out of time for today. If you remember, 4 helped us with it. 5 Q Were there a lot of changes made between the 5 it's something I'd like you to pull? 6 MR. HOPP: This is Exhibit 7. 6 versions we see in deposition 7 and the version we see in 7 7 (Defendants' Exhibit 7 was marked for deposition 4? 8 identification by the court reporter.) 8 A No. I think there were some changes, but I don't know if I'd characterize them as many but there 9 BY MR. HOPP: 10 were some changes, and you can read the two papers and 10 Q Do you recognize deposition Exhibit 7? 11 A Well, it looks like a draft or a manuscript of 11 see they're substantially similar but probably there are 12 the paper we submitted. I don't know if it's the one 12 some differences. published or an earlier version. 13 Q Is it standard practice to submit a paper to a 13 journal where the scientist is also a peer reviewer? 14 Q The document we see set forth is deposition 14 15 Exhibit 7. Do you know if this was in effect your expert 15 A You mean peer review your own paper? report in the Columbus, Mississippi litigation? Is this 16 Q No. You're on the list of peer reviewers for a journal. Is it standard practice to submit papers to your expert report? 17 17 A No. This is a manuscript I think that we that journal? 18 18 submitted to one of the journals of the paper. 19 A Sure. We do that all the time. 19 Q Do you believe then that -- here we go. It 20 20 Q At the time your paper was published in says to send all page proofs to James Dahlgren, M.D. Environmental Research, were you a peer reviewer for 21 21 22 Do you see that? 22 Environmental Research? 23 A Yes. 23 A No. He asked me to be a peer reviewer after 24 24 that. Q That's a sort of language you have on a 25 document you submit for publication? 25 Q And who is the publisher of Environmental 191 189 1 A Yes. Research? I mean, who is the editor? 1 2 Q Was Exhibit 7 ever rejected for publication? 2 A The editor is Ellen Silbergeld. 3 A Well, we sent it to Occupational and 3 Q Where does he work? Environmental Medicine and they rejected it, and then 4 A She works at Johns-Hopkins. sent it to Environmental Research and they published it. Q Ellen Silbergeld? 5 5 6 So I don't remember from memory if this is what we sent 6 A Ellen Silbergeld. MR. HOPP: It's 4:00 o'clock on the nose. 7 to Occupational and Environmental Medicine or not. 7 8 Q You received reviewer's comments and a 8 Shall we break? 9 rejection from Environmental Research? 9 THE WITNESS: Yes. 10 A No. From Occupational and Environmental 10 MR. HOPP: I'm ordering this written and I'd 11 Medicine, formerly the British Journal of Industrial 11 like the original. 12 Medicine. 12 MR. LUNDY: A copy, yes. 13 Q And Exhibit 4 is the second paper, which was 13 14 then submitted to Environmental Research? 14 15 A Right. Well, the paper that got published. 15 16 Q You added an author in deposition Exhibit 4 16 17 that we don't see on Exhibit 7, Harpreet Takhar? 17 A Yes. 18 18 19 Q Who is he? 19 20 A An epidemiologist who works with me. 20 21 Q Does he work for your company? 21 22 22 23 Q You employee him? 23 24 A Yes. 24 25 Q What was his role, if any, in the version we 25 190 192

	DENALTY OF BED HIDV	
1 2	PENALTY OF PERJURY	
3		
4		
5	I hereby declare I am the deponent in the within	
6	matter; that I have read the foregoing proceeding and	
7	know the contents thereof and I declare that the same is	
8	true of my knowledge except as to the matters which are	
9	therein stated upon my information or belief, and as to	
10	those matters I believe it to be true.	
11	I declare under penalty of perjury that the	
12	foregoing is true and correct.	
13	Executed on the day of	
14	, 2005, at,	•
15	California.	
16		
17		
18		
19		
1		
20	JAMES DAHLGREN, M.D.	
21		
22		
23		
24		
25		
1	193	
ı	100	
-		
1	I, VIRGINIA PETERAITIS, a certified shorthand	
2	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:	
2	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify: That prior to being examined the witness named in	
2 3 4	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify: That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify	
2 3 4 5	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth	
2 3 4 5 6	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify: That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil	
2 3 4 5	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;	
2 3 4 5 6 7	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant	
2 3 4 5 6 7 8 9	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;	
2 3 4 5 6 7 8 9 10	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my	
2 3 4 5 6 7 8 9 10 11	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;	
2 3 4 5 6 7 8 9 10 11 12 13	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for,	
2 3 4 5 6 7 8 9 10 11 12 13 14	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	I, VIRGINIA PETERAITIS, a certified shorthand reporter for the State of California, do hereby certify:  That prior to being examined the witness named in the foregoing deposition, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth pursuant to Section No. 2093 of the Code of civil Procedure;  That said deposition was taken before me pursuant to notice, at the time and place therein set forth, and was taken down by me in shorthand and thereafter reduced to typewriting via computer-aided transcription under my direction;  I further certify that I am neither counsel for, nor related to, any party to said action, nor in anywise interested in the outcome thereof.  IN WITNESS WHEREOF, I have hereunto subscribed my name this day of, 2005.	

(

Additition 150:23		<del></del>	<del></del>			Page 193
ability 150:21 active 23:2 73:24 possibility 150:23 able 59:5 100:21 75:8 817 99:20 136:16 daptive 150:11 3d add 11:14.15 add aptive 150:11 3d add 11:14.15 add 11:14.15 add 11:14.15 add 11:14.15 add 11:14.15 add 12:14.15 159:18 possible 16:19 22 addition 50:8 additions 50:8 addressed 46:16 absent 120:11 20:11 21:15 133:19 absorption 71:2 81:19 103:21 policy 22 addressed 46:16 absorption 71:2 81:19 103:21 policy 22 addressed 46:16 absorption 71:2 81:19 103:21 policy 22 addressed 46:16 absorption 72:2 81:19 103:21 policy 22 addressed 46:16 absorption 72:2 81:19 103:21 policy 23 addressed 60:13 absorption 72:2 81:19 103:21 policy 23:2 addressed 46:16 absorption 72:2 81:19 103:21 policy 23:2 addressed 80:13 absorption 72:2 81:19 103:21 policy 23:2 addressed 46:16 absorption 72:2 81:19 103:21 policy 23:2 addressed 46:16 absorption 72:2 81:19 103:21 policy 23:2 addressed 46:16 absorption 72:2 addressed 46:16 absorption	A	actual 84:20,23	90:22 115:22	angiosarcoma	159:6	assembling 150:16
able 39:5 20:27 10:24 122-4 131:16 151:3.6 ablayer 150:13 able 29:122-4 131:16 151:3.6 ablayer 150:13 able 29:122-4 131:16 151:3.6 ablayer 150:13 ablayer 15				107:20 108:13	applying 112:8	
23.10   23.17   23.10   23.17   23.10   23.17   23.10   23.17   23.10   23.17   23.10   23.17   23.10   23.13   23.1				108:15		
130-24 122-4   132-16   132-						
131316 1513-6						assessing 91:2
absormal 14:16 153:18 abortion 16:19,22 16:124 16:25 above-noted 139:22 addition 146:22 addition 146:22 addition 146:23 additions 59:8 128:11 16:89 additions 59:8 addressed 44:5,9 absorption 71:21:15 133:19 absorption 71:21:15 133:19 absorption 72:2 81:10 103:21 absorption 71:2 81:10 103:21 abstract 11:9 15:6 46:10 abused 16:12 absored 14:2 abstract 11:9 15:6 absored 15:2 abstract 11:9 15:6 absored 15:2 abstract 11:9 15:6 absored 15:2 abstract 11:9 15:6 absored 16:12 absored 16:12 absored 16:12 absored 16:13 absored 16:12 absored 16:12 absored 16:12 abstract 11:9 15:6 abstract 11:9						
abortion 16:11:9,22   abore-noted   abortion 16:11:9,23   additional 64:13   additions 50:8   address 44:5,9   address 44:5,9   address 44:5,9   abortion 91:2   abortion 19:2   address 44:5,9   abortion 91:2   abortion 19:2   address 44:5,6   address 64:16   abortion 19:2						
19016   1902   19016   1903		-		Y		-
161:24 102:5 above-noted 139:92 absence 79:6,9 188:16 absent 120:11 121:15 132:1,9 absorbed 19:25 20; absorb						
addition 146:22   14921 1649   additions 146:32   1415,3) 164:11   absent 120:11   1415,3) 164:11   additions 50:8   addition						
139-22 absence 79:6,9 188:16 188:16 188:16 188:16 188:16 188:19 116:14 133:19 121:15 132:1,9 188:06 1925 20:3 188:07:10 132:1 139:22 20:3 188:06 25 65:22 66:5 133:19 139:22 95:25 133:19 139:25 20 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 12:15 132:1,9 138:07:12 13:15 13:15 138:07:12 13:15 13:15 138:07:12 13:15 13:15 138:07:12 13:15 13:15 128:13 15:15 1			1 1			
138-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   168-9   128-11   128-1			0			
128:11 108:9 188:16 188:16 188:16 199:15   139:11   170:10 199:17   170:11   170:10 199:17   170:10   170:12 133:19 199:18   190:25   20.3 188:10 103:21 199:3 99:12 43:1 199:3						
188:16 absent 120:11 additions 50:8 adress 44:5.9 address 44:5.9 absorbted y 107:14 133:19 absorbted y 25:20:3 absorbed 9:25:20:3 absorbed 9:25:20			-			
additions 50:8 address 44:59 address 44:59 are site 13:21:15 132:1,9 absolutely 107:14 133:19 absorbed 9:25 20:3 address 44:59 are site 13:22 address 46:51 absorption 77:2 abstract 11:9 15:6 46:10 absorbed 9:25 20:3 address 46:51 absorption 77:2 addressing 62:22 address 8:15 address 46:10 absorbed 19:25 address 8:15 address 46:10 absorbed 19:25 address 8:15 address 8						
23:25 24:6						
52.25 65.22 66.55   103.24 104.39   56.24 63.8 8   68:18 77.21   107.25   108.50   109.9   397.8 76.15   109.9   397.8 76.15   109.9   397.8 76.15   108.2 41.14   107.46 144:19   107.46 14			· ·			_
Table   Tabl	,		-			
absorption 77:2 3h3sorption 77:18 135:9 3h3sorption 77:1			l	•		•
absorption 77:2 81:10 103:21 104:58,12 abstract 11:9 15:6 46:10 abuse 160:18 abuse 160:18 abuse 160:18 abuse 160:18 abuse 166:2 adduct 83:19 176:2 allipose 41:24 adjusters 8:6 accept 23:6,22,22 accept 23:6,5 33:6 62:6 accepting 24:6 accepting 24:6 access 174:16 accomplishing 19:18 account 27:22 73:2 91:5 157:15 158:17 account 77:2 53:23,25 54:1,2 24:5,6 53:6 62:6 accomplishing 19:18 administeration 158:17 account 77:2 31:10 103:21 admict 83:19 176:2 administering 19:18 administerions 12:2:1 allive 15:5:12 allive 15:12 allive 10:12 allive 15:12 allive 10:12 allive 15:3:1 allive 15:3:1 allipe 15:14:1 170:10 170:						
allory 103:21 104:5,8,12 addressing 62:22 addressing 62:23 addressing 62:22 addressing 62:23 addressing 62:22 addressing 62:23 addressing 62:24 addressing 62:25 68:22,242:56:92 58:25,17 83:2 adjinest 43:4 adjinest 73:12 adrespting 64:13 accepting 46:13 accepting 46:14 animister 45:5 allered 81:6 allowed 64:19 animister 40:12 addressing 62:22 and animister 30:13 allowed 64:19 allowed 64:19 animister 40:12 allowed 64:19 animister 40:12 animister 40:13 animister 40:13 animister 40:					-	
adducts 33:19 176:2 abstract 11:9 15:6 46:10 abuse 160:18 abuse 160:18 abuse 160:2 adducts 38:15 adducts 38:15 abstract 11:9 15:6 46:10 abuse 160:18 abuse 160:18 abuse 160:18 abuse 160:2 adjucet 13:4 adjusters 8:6 allowed 64:19 answers 35:5 125:13 answers 35:5 125:13 answers 35:5 125:13 answers 35:5 125:15 Anthony 3:9 5:10 anxiety 10:12 anter 10:12 anyount 17:20 atterations 122:1 antered 10:12 advantage			ł .	1		
abstract 11:9 15:6 46:10 abuse 160:18 abuse 161:2 accept 23:6,22,25 accepted 45:14 52:18 57:9 accepting 24:6 ac			[			
46:10 abused 160:13 alive 150:13 4 adjunct 13:4 alive 155:12 1 147:10,11 152:13 argue 106:8 association 99:19 association 99:19 association 99:19 association 99:19 association 99:19 accepte 23:6,6 23:6 22:6 24:5,6 53:6 62:6 administer 30:13 106:3 administered 5:5 allows 46:19 106:3 accent 46:10 answers 35:5 allows 46:19 allowing 131:15 allowing 131:15 alministering 19:18 account 27:22 73:2 91:5 157:15 158:17 account 27:22 73:2 91:5 157:15 158:17 account 57:2 accounting 49:23 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 account 57:2 53:23,25 54:1,2 54:14 58:23 admit 153:3 administering 19:18 153:15 aliministering 19:18 159:15 159:1			ſ			
abuse 160:18 abuse 161:2 adjuset 13:4 allegels 18:15 allowed 64:19 answers 35:5 allowed 14:21 answers 35:5 allowed 16:12 allowed 64:19 answers 35:5 allowed 16:12 antwers 10:12 allowed 16:12 allowed 64:19 answers 35:5 allowed 16:12 antwers 10:12 allowed 16:2:1 antwers 10:12 altered 10:12 adter 10:12 adverse 39:1 74:3 affect 54:1, 51, 7 auphody 17:20 artificial 163:11 assumed 178:24 assume 105:2 artificial 163:11 assumed 178:24 assuming 10:7 artificial 163:11 aspects 23:1 artifici	abstract 11:9 15:6					
adipose 41:24 adjunct 13:4 secepting 24:6 accepting 24:6 account 27:22 73:2 91:5 157:15 158:17 accounting 49:23 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 advantage 101:2 advantag	46:10			5		
adjunct 13:4 allergies 149:25 accepted 45:14 accepted 45:15 adjunct 13:4 allergies 149:25 aller 13:15 adjunct 13:4 allergies 149:25 aller 13:15 allered 16:12 allered 16:12 allered 10:12 all	abuse 160:18			- :		
accepted 45:14 52:18 57:9 administer 30:13 106:3 administer 30:13 123:13 151:5 accomplishing 19:18 account 27:22 73:2 91:5 157:15 158:17 accounting 49:23 accounts 57:2 accounts 57:2 accounts 57:2 accounts 57:2 account 27:25 53:23,25 54:1,2 53:23,25 54:1,2 54:14 58:23 65:24 70:17,17 71:2 94:1 104:14 107:4,6 144:19 158:16 accountely 54:9 100:12 achievement 162:23 achieving 162:19 accevement 162:23 achieving 162:19 accevement 162:23 achieving 162:19 acres 170:6 activities 17:4 92:20  adjusters 8:6 administer 30:13 106:3 administer 30:13 106:3 adlus 84:3 86:22 allowed 64:19 Anthony 3:9 5:10 Anthony 3:	abused 161:2				1	
accepted 45:14 52:18 57:9 accepting 24:6 accomplishing 19:18 account 77:22 73:2 91:5 157:15 158:17 accounting 49:23 accountin	accept 23:6,22,25	•	•	. ~		
106:3   administered 5:5   21:22 22:1 75:3   administered 5:5   21:22 22:1 75:3   allowed 64:19   156:21   allowing 131:15   article 4:14,15,17   assumed 178:24   assuming 103:2   article 4:14,15,17   assuming 103:2   article 4:14,15,17   assumed 178:24   assuming 103:2   article 4:16,15   assuming 103:2   article 4:14,15,17   assuming 103:2   article 4:14,5,17   assuming 103:	24:5,6 53:6 62:6	•				ľ
accepting 24:6 access 174:16 accomplishing 19:18 account 27:22 73:2 91:5 157:15 158:17 accounting 49:23 administering 101:13 administration 12:3 administration 12:1 altered 10:12 34:8 35:25 36:13 administration 12:3 administration 12:1 altered 10:12 34:8 35:25 36:13 adivers 99:17 34:8 35:25 36:13 adverse 99:17 accounts 57:2 advantage 101:2 adverse 99:17 4:3 applead the file:12 artificial 163:11 assumed 178:24 assuming 103:2 artificial 163:11 asphed 10:12 article 4:14:14,5,17 11:10 31:59:18 articles 11:6,15 articles 11:6,15 articles 11:6,15 articles 11:6,15 applyody's 188:14 applyody's 188:14 applyody's 188:14 applyody's 188:14 applyody's 188:14 applyody's 188:14 applyody'	accepted 45:14	†		9		
access 174:16 account 27:12 22:1 75:3 administering 19:18 administering 101:13 administering 101:13 administration 12:3 administration 12:4 administration 12:4 amazing 15:2:4 application 13:14:3 assuming 103:2 ariticle 4:14;15	52:18 57:9		Ī			f
123:13 151:5 administering 101:13 alterations 122:1 alter 121:17 accounting 49:23 accounts 57:2 adult 73:8 151:20 adult 73:8 151:20 adult 73:8 151:20 adverse 39:1 74:3 affect 54:3 94:4 58:23 65:24 70:17,17 71:2 94:1 104:14 107:2 100:12 achievement 100:12 147:6,19,22 achievement 162:23 achieving 162:19 acres 170:6 accurately 54:9 162:23 achieving 162:19 acres 170:6 accurately 54:9 162:23 achieving 162:19 acres 170:6 accurately 54:9 action 93:11 194:14 active 29:19 active 20:0 active 29:19 active 29:19 active 29:19 active 20:0 active 20:10 active	accepting 24:6		1			
19:18   account 27:22 73:2   91:5 157:15   158:17   administration   12:3   admit 153:3   admit 15	access 174:16					
account 27:22 73:2 91:5 157:15 158:17 accounts 57:2 accurate 27:25 53:23,25 54:1,2 54:14 58:23 65:24 70:17,17 71:2 94:1 104:14 107:4,6 144:19 158:16 accurately 54:9 158:16 accurately 54:9 100:12 achievement 162:23 achievement 162:23 achievement 162:23 achieveing 162:19 achieveing 162:19 accivate profile 162:23 achieveing 162:19 achieveing 162:10 analyzing 68:20 application 138:16 application 138:16 application 138:16 assumption 158:18 assumance 59:3 asthmac 1:0:1 application 12:1 application 138:16 applicati	accomplishing					
administration   12:3   administration   12:4   administration   12:4   23:4   23:4   23:1   23:2   23:4   24:4   23:1   23:2   23:4   24:4   23:1   23:1   23:2   23:1   24:2   23:1	19:18				i e	
158:17 accounting 49:23 accounts 57:2 accounts 57:2 accounts 57:2 accounts 27:25 53:23,25 54:1,2 53:23,25 54:1,2 65:24 70:17,17 71:2 94:1 104:14 107:4,6 144:19 158:16 accurately 54:9 100:12 achievement 162:23 achievement 162:23 achieveing 162:19 achieveing 162:19 achieveing 162:19 achieveing 162:19 accivately 54:9 114:21 achieveing 162:19 achieveing 16	account 27:22 73:2					
accounting 49:23 accounts 57:2 accurate 27:25 53:23,25 54:1,2 54:14 58:23 65:24 70:17,17 71:2 94:1 104:14 107:46 144:19 158:16 accurately 54:9 100:12 achievement 162:23 achievement 162:23 achievement 162:23 achieving 162:19 accion 93:11 acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 action 93:11 194:14 active 29:19 action 93:11 192:20 advantage 10:2 advantage 10:4 avgantage 10:4	91:5 157:15	•				
accounts 57:2 accurate 27:25 advantage 101:2 advantage 101:2 afterward 15:22 afterward 15:22 age 133:11,14,15 158:16 accurately 54:9 100:12 achievement 162:23 achievement 162:23 achieving 162:19 action 93:11 acres 170:6 act 94:3,4 131:9 action 93:11 2 activities 17:4 92:20 advantage 101:2 afterward 15:22 afterward 15:22 appendix 3:11,14,15 160:21,23 analogues 61:10 analysis 51:9 61:9 98:25 analysis 68:12 analyzing 68:12 analyzing 68:20 action 93:11 active 29:19 action 93:11 activities 17:4 92:20 170:5 analyze 67:5 Appendix 32:3,4 application 138:16 appendix 32:3,4 application 138:16 anyway 100:14 42:6,8,9,12,19 42:66,8,9,12,19 42:66,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:6,8,9,12,19 42:47;18 114:23 115:24 119:6 144:11 102:16,21 102:16,21 106:102:10 106:17,20 169:18,25 170:1 170:10,15 application 138:16 appears 126:24 application 138:16 applicatio		1.5		Ł		
accurate 27:25 53:23,25 54:1,2 54:14 58:23 65:24 70:17,17 71:2 94:1 104:14 107:4,6 144:19 107:4,6 144:19 108:16 accurately 54:9 100:12 achievement 162:23 achieving 162:19 acres 170:6 activities 17:4 activities 17:4 activities 17:4 92:20  advantage 101:2 advents 39:1 74:3 affect 54:3 94:4 appel:30:14:11 anywore 114:8 anyway 100:14 als:7:1 anyway 10:14 als:7:1 anyway 100:14 als:7:1 anyway 100:14 als:7:1 anyway 100:14 als:7:1 anyway 10:14 als:7:1 anyway 10:14 als:7:1 anywa	accounting 49:23				1	
53:23,25 54:1,2 54:14 58:23 65:24 70:17,17 71:2 94:1 104:14 107:4,6 144:19 158:16 accurately 54:9 100:12 achievement 162:23 achieving 162:19 acres 170:6 act 94:3,4 131:9 activities 17:4 active 29:19 activities 17:4 92:20  adverse 39:1 74:3 affect 54:3 94:4 affe	accounts 57:2			anybody's 188:14		
124:21	accurate 27:25					
36.7.4 70:17,17       afterward 15:22       age 133:11,14,15       amphetamines       187:11       98:1 99:10       152:24 165:20       168:17,20 169:3         71:2 94:1 104:14       107:4,6 144:19       142:17,18,19,21       144:2 145:4,8,10       analogues 61:10       analysis 51:9 61:9       aphea 157:6       asked 28:11 35:7       169:18,25 170:1         accurately 54:9       145:11,11,18       98:25       analytic 80:12       aphea 157:6       aphea 157:6       asked 28:11 35:7       asthmatic 136:3         achievement       162:23       147:6,19,22       analytical 61:6       apparent 152:16       APPEARANCES       167:15 179:8       136:13         acres 170:6       162:6,16 178:17       181:20       asking 5:15 21:17       106:1 109:10       asymptomatic         active 29:19       agent 102:22       agents 40:23,24       42:4 73:5 150:4       179:18       anemia 116:10       application 138:16       application 138:16       application 138:16       application 138:16       appects 25:14       attempt 143:17         42:20       42:4 73:5 150:4       170:5       Angeles 13:17       71:15,15,17       76:18 106:10       attend 24:23 29:22						<i>2</i>
71:2 94:1 104:14 107:4,6 144:19 158:16 accurately 54:9 100:12 achievement 162:23 achieving 162:19 acres 170:6 act 94:3,4 131:9 active 29:19 activities 17:4 92:20  160:21,23 analogues 61:10 analysis 51:9 61:9 98:25 analytic 80:12 apparent 152:16 APFEARANCES 167:15 179:8 136:13 asked 28:11 35:7 52:5 59:21 61:17 asthmatic 136:3 asthmat-like 10:7 asthmatic 136:3 asthma-like 10:7 asthmatic 136:3 asthmat-like 10:7 asthmatic 136:3 asthmat-like 10:7 asthmatic 136:3 asthmat-like 10:7 asthmatic 136:3 asthmat-like 10:7 asthmatic 136:3 apparent 152:16 APPEARANCES 167:15 179:8 136:13 asymmetrical application 138:16 application 1						
107:4,6 144:19 158:16 107:4,6 144:19 158:16 142:17,18,19,21 144:2 145:4,8,10 145:11,11,18 160:12 162:23 160:13 161:25 160:13 161:25 160:13 161:25 160:13 161:25 1194:14 194:14 194:14 194:14 192:20 1142:17,18,19,21 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:2 145:4,8,10 144:11,11,18 145:11,11,18 146:6,16,16,23 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:15 147:10 147:10 147:15 147:15 147:15 147:15 147:15 147:10 147:10 147:15 147:10 147:10 147:15 147:15 147:15 147:15 147:15 147:10 147:10 147:10 147:15 147:10 147:10 147:15 147:10 147:10 147:10 147:10 147:15 147:10 147:10 147:15 147:10 147:10 147:15 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:15 147:10 147:10 147:15 147:10 147:10 147:15 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:15 147:10 147:10 147:10 147:10 147:15 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:10 147:15 147:10 147:						
158:16 accurately 54:9 100:12 achievement 162:23 achieving 162:19 acres 170:6 active 29:19 active 29:19 activities 17:4 92:20 144:2 145:4,8,10 145:11,11,18 164:6,16,16,23 170:10,15 analysis 51:9 61:9 98:25 analytic 80:12 appears 152:16 APPEARANCES 150:14 asking 5:15 21:17 asking 5:15 21:17 asking analytic 10:7 asking 10:10 analytic 10:7 asking 10:10 analytic 10:7 asking 10:10 analytic 10:7 asking 5:15 21:17 asking analytic 10:10 analytic	71:2 94:1 104:14			1 7	*	
145:11,11,18 98:25 apologize 21:17 62:25 63:8 147:6,19,22 analytical 61:6 analyze 67:5 162:23 achieving 162:19 acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 activities 17:4 92:20 145:11,11,18 98:25 analytic 80:12 analytical 61:6 analyze 67:5 analyze 67:5 analyze 68:20 appendix 32:3,4 application 138:16 applies 71:20 applies 72:24 attempt 143:17 attempting 53:9 action 20:15 analyze 160:16 analyze 160:16 analyze 13:17 asthmatic 136:3 asthmatic 136:3 asthma-like 10:7 asthmatic 136:3 asthma-like 10:7 asthma-type 136:13 asthma-like 10:7 asthma-type 136:13 asymmetrical 39:14 asymptomatic 150:22 appendix 32:3,4 application 138:16 applies 71:20 aspects 25:14 aspects 25:14 applies 71:20 apply 30:9 63:7 71:15,15,17 76:18 106:10 attempting 53:9 attempt 140:00.04	107:4,6 144:19				li de la companya de	
100:12 achievement 162:23 147:6,19,22 analytical 61:6 analyze 67:5 162:24 achieving 162:19 acres 170:6 action 93:11 194:14 active 29:19 activities 17:4 92:20 146:6,16,16,23 147:6,19,22 analytical 61:6 analyze 67:5	158:16	, ,				
147:6,19,22 analytical 61:6 analyze 67:5	accurately 54:9		<del>-</del>			
162:23 achieving 162:19 acres 170:6 acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 activities 17:4 92:20 158:23 159:5 160:13 161:25 111:13 3:1 136:13 analyzed 57:8 analyzed 57:8 analyzed 57:8 analyzing 68:20 appears 126:24 appears 126:24 appendix 32:3,4 appendix 32:3,4 appendix 32:3,4 appendix 32:3,4 appendix 32:3,4 application 138:16 applies 71:20 aspect 11:20 70:19 aspect 11:20 70:19 aspect 11:20 70:19 attempt 143:17 attempting 53:9 attempt 143:17 attempting 53:9 attempt 29:20	100:12					
162:23 achieving 162:19 acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 activities 17:4 92:20 158:23 159:5 160:13 161:25 111:13 analyzed 57:8 111:13 analyzed 57:8 analyzed 57:8 111:13 analyzed 57:8 analyzed 57:8 analyzing 68:20 analyzing 68:20 appendix 32:3,4 application 138:16 applies 71:20 applies 71:20 applies 71:20 applies 71:20 applies 71:20 applies 71:20 applies 71:15,15,17 76:18 106:10 attend 24:23 29:22 applies 13:17 artempting 53:9 attend 24:23 29:22	achievement	1				
acres 170:6 acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 activities 17:4 92:20  162:6,16 178:17 181:20 analyzed 57:8 68:21 analyzing 68:20 analyzing 68:20 analyzing 68:20 analyzing 68:20 appendix 32:3,4 application 138:16 applies 71:20 applies 71:20 applies 71:20 applies 71:15,15,17 76:18 106:10 applies 32:24 asking 5:15 21:17 106:1 109:10 asymptomatic 119:23 ATSDR 81:12 attempt 143:17 attempting 53:9 attend 24:23 29:22	162:23	3	, •			
acres 170:6 act 94:3,4 131:9 action 93:11 194:14 active 29:19 activities 17:4 92:20  162:6,16 178:17 181:20 analyzed 57:8 68:21 analyzing 68:20 appendix 32:3,4 application 138:16 applies 71:20 applies 71:20 apply 30:9 63:7 71:15,177 76:18 106:10 attempt 143:17 attempting 53:9 attempt 120:22 attempt 143:17 attempting 53:9 attempt 24:23 29:22	achieving 162:19					
action 93:11 194:14 active 29:19 activities 17:4 92:20 active 39:19 activities 17:4 92:20 active 29:19 activities 17:4 92:20 analyzing 68:20 Anderson 179:16 179:18 analyzing 68:20 Anderson 179:16 application 138:16 applies 71:20 applies 71:20 applies 71:20 applies 71:20 apply 30:9 63:7 71:15,15,17 76:18 106:10 attempt 143:17 attempting 53:9 attempt 24:23 29:22			1*.			
action 93:11 194:14 active 29:19 activities 17:4 92:20 agency 69:21 analyzing 68:20 Anderson 179:16 application 138:16 applies 71:20 apply 30:9 63:7 71:15,15,17 76:18 106:10 artivities 13:17 Articology attempt 143:17 attempting 53:9 attempt 143:17	act 94:3,4 131:9				1	1
194:14 active 29:19 activities 17:4 92:20 Anderson 179:16 application 138:16 applies 71:20 aspects 25:14 aspects 25:14 apply 30:9 63:7 49:24 71:18 anemia 116:10 apply 30:9 63:7 71:15,15,17 76:18 106:10 attempt 24:23 29:22 attempt 24:23 29:22 attempt 24:23 29:22 attempt 24:23 29:22 attempt 20:17						
active 29:19 agents 40:23,24 179:18 applies 71:20 aspects 25:14 attempt 143:17 activities 17:4 42:4 73:5 150:4 anemia 116:10 apply 30:9 63:7 49:24 71:18 attempting 53:9 71:15,15,17 76:18 106:10 attend 24:23 29:22						,
activities 17:4 42:4 73:5 150:4 anemia 116:10 apply 30:9 63:7 49:24 71:18 attempting 53:9 20:20 Angeles 13:17 71:15,15,17 76:18 106:10 attend 24:23 29:22			ľ			
92:20 170:5 Angeles 13:17 71:15,15,17 76:18 106:10 attend 24:23 29:22		1				
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		aggravated 87:3	169:3,16	109:7 111:7	assembled 109:24	attended 29:17
		<u> </u>	<u> </u>	<u> </u>	<u>L</u>	<del></del> _

	T				Fage 190
attending 29:25	154:17 158:14	113:24 115:7,21	bit 25:14 42:2	break 6:6 50:23	C 111:11
attention 150:16	172:22 177:25	121:15 128:1,4,6	145:15 183:3	74:18 81:14,18	calculate 83:25
Attorney 3:5,9,14	188:13	132:16,18	black 122:20	112:1,11,12	calculation 150:18
attributable 77:12	backed 65:24	137:12 142:22	127:16 138:5	192:8	California 1:14
attribute 140:1,2	background 45:22	148:11 150:3	blacks 122:22	breakdown 20:10	2:19 5:1 6:15
aunts 144:4 161:12	48:11 51:10 52:6	151:11 153:17	138:9	breaking 99:11	33:14 193:15
author 22:10 50:6	150:11	158:24,24	bleeding 158:6	breaks 116:12	194:2
50:7,12 67:11	backing 152:25	161:25 164:5,17	blockage 19:18	breast 35:25	call 7:22,24 14:15
190:16	backup 182:23	167:19 168:25	163:9,14	142:14,16,17,24	15:15 23:16
authored 172:17	186:23 187:2	170:25 171:6	blocks 19:14	143:6,7,8,9,13,15	27:21 28:2 55:25
175:24	bad 10:12 53:5,14	175:21 183:13	blood 11:1,3 15:18	143:19,20 144:8	63:15 78:3 102:3
authorities 70:5,6	110:22 156:19	186:8 187:24	15:21 16:4 20:1	144:12,15,20,24	127:24 174:8
authority 46:3	BAILEY 3:14	188:23 189:20	20:2,3,6,11	145:2,4,16,18	called 8:11 9:9
authors 67:15	83:16	193:10	43:19 71:16 79:8	146:2,6,13	12:14 18:22
104:13	balance 115:17	believed 114:15	82:13,16 85:4	147:13,17,21	23:10 30:15
author's 22:11	166:10	believes 114:20	104:23 116:2,10	148:1,7,10,16,20	98:17 126:23
autoimmune 116:8	ballpark 7:10	belong 23:23	116:10 117:12	148:22 149:4,5,7	128:20 138:25
142:5 165:5	BANG 3:18	belonged 29:19	120:13,15,22	149:13	139:1
automatically	barely 167:14	benefit 5:19 50:7	131:2 133:9	breath 10:5 89:9	calls 27:3
102:13	Barnes 142:19	99:11 150:24	140:15 141:3,5,7	116:3 135:5	Canada 83:11
available 16:21,22	barrier 20:12	benign 126:5	157:23 159:5	136:1 165:18	Canadian 83:13
16:24,25 27:6	74:20	Benzene 99:19,21	170:23 172:6,25	breathe 155:22	cancer 32:5,6
46:21 60:21	base 163:18	Berlin 11:8 185:15	173:2,3,7,18,23	breathing 155:22	34:19,22 35:2,13
66:17 89:22	based 31:17 48:6	best 51:17 72:11	174:7 181:24	156:4,6 157:7,8	35:19 36:1 37:3
123:17	53:15 59:14	130:11 156:24	188:14	157:20	40:15,20,22 41:2
avenue 21:10	62:15 63:18 70:1	158:25	bloods 186:3	breaths 121:4	41:3,5,12,20
avoid 109:12	72:13 79:15 80:4	better 11:21 35:4	Blow 92:7	briefly 9:12 15:2	42:6,10,13,20
aware 39:21 40:3	85:4,6 86:9,25	88:4 100:10	Blue 23:20,20	bring 81:14	43:3,8,11,15
41:4 42:11,15,18	87:19,24 103:24	101:20 102:10	<b>blurred</b> 166:9,19	brings 93:10	44:1,5,10,13,25
56:12 143:16	114:22 123:10	102:13 103:8	board 28:18 29:5,8	153:10	58:16 65:9 69:1
149:3 151:13,25	125:16 134:25	104:19,20	29:11,13 30:1,4	British 190:11	75:11,14,17 84:3
162:5	137:3	105:16,17 106:3	30:11	broad 3:5 53:24	85:23 92:2,5,10
axillary 126:3	baseline 51:6	150:14 177:10	body 11:19,24	54:16	95:24,25 96:4,4
AXYS 83:10	basically 41:22,25	177:14	18:24 19:13,23	broader 25:14	96:7,14,25 97:7
171:23,25	119:9 127:19	bias 55:24 57:9,12	20:8,16,17 30:14	154:2	97:11,17,18 98:7
A.J.Paepke 186:9	142:20	102:3	42:1 43:15,19	bronchial 89:8	98:23 99:1,4,7,8
A.L 186:9	basin 169:3	bicycle 12:4	53:20 56:17	bronchitis 37:25	99:11,13,18
a.m 2:19 5:2	basis 17:2 26:24	big 33:16 108:9,20	74:25 97:13,24	40:10 86:6 87:8	102:19 107:22
В	47:2 67:3 69:13	110:20 127:17	100:21	87:18,19 132:12	107:23 108:7,10
B 12:3 111:11	79:11 93:13 119:13 128:16	129:21 135:2	bone 97:23,23 98:2	135:4 165:20	108:24,25
babies 157:22	128:19 136:16	bigger 108:10	98:3,6	brother 159:23	110:13,17,19
158:11 159:8,10	bear 93:10	BIGGERS 3:13 biggest 100:14	book 107:8	brought 7:23 13:16	116:19,19,23,25
159:19,24 160:4	Beazer 3:7	103:10 114:22	Borak 104;2	13:21 21:19	125:20,21 126:6
160:10,19,23,25	Beck 1:4 2:6 82:7	114:24	born 78:24 152:22	build 163:12	126:11,14,17,20
161:4 162:1	82:20,23	bile 18:17,21,23	154:4 155:9,11 155:19 156:9	building 76:25 buildings 10:25	126:22,25,25
baby 155:24	BECKHAM 3:13	19:14	158:19 159:1,22	buildup 136:15	127:2,5,8 128:2 128:4,9,10,17
156:24 158:23	began 127:21	bill 23:21 24:10	160:4 162:16	169:15	128:4,9,10,17
158:25 159:13	163:25	biologic 104:23	borne 162:16	built 57:9	129:16,21,22
159:16 160:8	beginning 2:19	biological 103:17	bottle 74:17,18	bunch 46:24	130:6,9,12,15
162:12,16	56:4	104:16 106:24	75:7	108:22	131:4,17,18,22
back 11:22 14:7	behalf 2:17	biphenyl 22:3	bottom 188:8	burden 11:19,24	132:3,9 134:11
19:4 22:19 34:25	behave 20:23	biphenyls 13:11	Boulevard 2:18	20:17	142:14,16,17,24
43:24 49:11	behavior 141:3	birth 38:16,17,18	box 110:3	burdensome 61:3	143:6,8,8,10,13
52:12 74:15	belief 43:6 193:9	38:20,22,24 39:2	boy 149:16	burned 76:2	143:15,19,20
78:18 81:17	believe 12:3,22	39:3,4,6,12,13,13	<b>brain</b> 41:24 96:4	burn-treated	144:8,10,10,12
83:21 85:14	13:12 17:15 30:8	143:14 150:3	142:15 152:15	64:14	144:15,20,24
109:20 112:14	33:24 54:16 57:6	155:15 157:4	158:1,6 162:20	business 56:19	145:2,4,9,16,18
123:4 128:22	63:3 69:17 81:21	158:4 165:6,7,7	163:10,12,14,16		145:23 146:2,6
148:2 151:9	84:13,25 87:3	165:9,10	163:17,20,22	C	146:14,15,16
	, <del>,</del>		المعاورين والمدواء		1,10,10
			<del></del>	<del></del>	

ESQUIRE DEPOSITION SERVICES
(323) 938-2461

)

€

1476-153-178   501-218 53-18   140-10 143-13   148-21 148-17   532-25 61-12   148-17-12   148-17-13   165-41   170-16   169-25   170-16		<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·	<del>,</del>	Page 197
14722 1481,7   1482,105   1487,157.25   14	147:6.13.17.18	50:12.18 53:18	140:10 143:13	chaff 110:9	159:21 170:1	153:19
1481,016,20,23   1494,57,713   6621,125,20 6.39   6318,22,22,24   146,617-2.3,5   146,618-2,15   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6314,16 68.3,6   6316,10 68.3,7   6316,18 12.0,23   6316,18 12.0,23   632,20   632,2						
16544.5   63:18,224.24   146:1172.35   136:5   136:6   136:11.5   136:12   136:6   136:13   136:14   136:12   136:6   136:14   136:12   136:6   136:14   1						
1655-4.15 cancerva 126:13 cancers 41:2,15,18 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.683.6 doi:14.16.991.51.02:17.19 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.52.0 doi:16.18.12.15.13.14 doi:16.18.12.52.0 doi:16.18.12.15.13.14 doi:16.18.12.52.10.14.11 doi:16.18.12.62.10.14.11 doi:16.18.12.14.11 doi:16.18.				E .		
cancers 412.15, 18   643.16, 683.6   436.7 96:11, 16   68.7 72:12, 18   1387, 139.23   136.7 96:11, 16   68.7 72:12, 18   1387, 139.23   136.18, 125.20   138.41, 148.23   572.08, 189.19 99.19   16.69.10, 188.23   138.23   138.11, 191.58   139.12, 191.18, 181.23   139.23   136.18, 181.23   136.18   138.11, 191.58   139.12   139.12, 191.18   138.11, 191.58   139.12   139.12, 191.18   139.12   139.12, 191.18   139.12   139.	•					
cancers 41:2,15,18   65:14,16 68:3,6   130:3 132:20   130:3 132:						
456.7 96:11,16 68:7 72:12,18 79:139:12,23 98:14 99:15 102:17.19 91:22,23 98:14 99:15 102:17.19 92:23 98:14 142:3 157:18 1139:23 116:23 158:21 119:15 84:91 16:22 12 128:14 148:25 20 148:24 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 148:25 20 148:24 14	4					· · · · · · · · · · · · · · · · · · ·
99:17 97:14,19 97:21 79:14,19 97:22 79:14,19 97:22 79:14,19 97:21 79:14,19 97:22		1				
997.15 (197.17) 9 (2.7) 2.73 (2.7) 2.73 (2.7) 1.16 (1.8) (2.5) 2.73 (2.7) 2.7		1				
9915 102:17,19 116:18 125:20 128:14 148:25 128:14 148:25 128:21 238:12 128:14 148:25 128:22 38:12 128:14 148:25 128:22 38:12 139:23 93:8,24 140:23,24 150:23 100:23 103:22 100:23 103:22 100:23 103:22 100:23 103:22 100:23 103:22 100:23 103:22 100:23 103:22 100:23 103:22 100:24 109:3 100:16 108:2,15 109:11 100:9 112:21 100:9 112:21 110:9 112:21 128:14 141:1 120:9 112:10 120:14 141:1 120:15 138:11 120:16 120:20 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 128:14 148:25 116:23 17:3 128:14 148:25 128:14 148:25 116:23 17:3 128:14 148:25 116:24 126:1,16 128:14 148:25 116:25 108:12 116:25 138:25 119:25 110:25 138:25 128:25 138:25 128:25						
116:18 125:20 128:14 148:25 128:19 148:25 128:19 148:25 128:19 148:25 128:29 198:99 199:25 142:32 143:78 163:19 142:32 143:78 163:19 143:78 163:19 145:21 100:2,3 103:22 100:2,3 103:22 100:2,3 103:22 100:2,3 103:22 100:2,3 103:23 100:2,3 103:23 100:2,3 103:23 100:2,3 103:23 100:2,3 103:23 100:2,3 103:23 100:2,3 103:2,3 103:23 100:2,3 103:3,3 103:3,3	1	1				_
128.14 148.25   287.20 89.19 90.95   26.22 138.12   21.10 13.16 22.14 2.19   21.10 2.10 2.20   21.30 2.20   22.20 2.30 2.20   23.10 2	I	1 . ' '	,			
Acceptable 63:16   20:23   93:8,8,24   43:7,8   163:19   169:20			1		•	
402.3.24	•	I .	1	•	<b>.</b>	
canable 63:16	, -			l e		1
capable 63:16   66:23 68:11 91:8   93:13 96:25 97:1   93:12 97:1   108:25 109:3   119:15   CDD 72:5.6   clares 109:6 119:15   CDD 72:5.6   clares 109:6 119:15   CDD 72:5.6   clares 109:6 116:10,24   23:7.10   152:5 153:23   143:5 149:25   125:153:23   125:153:23   125:153:23   125:153:23   125:153:23   125:153:23   125:153:23   125:153:23   125:153:23   125:16   179:12 181:18   Center 9:11,13,14   99:7 10:24 11:15   19:23 20:7 99:8   175:13   146:25 147:3   149:15   186:1   99:17 10:24 11:15   19:23 20:7 99:8   175:13   145:5,13		1				
66:22 68:11   107:16 108:2,15   39:13 96:25 97:1   109:16 121:9   37:24 40:10   52:15 125:10   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 40:10   52:15 13:15   109:16 121:9   37:24 81:78:7;   6charte 83:6   6charte 83:6   73:24 81:78:7;   6charte 91:1,13,14   6charte 91:1,13,		· ·				
93:12 97:1 108:25 109:3 110:19 112:21 110:19 112:21 123:15 138:11 110:19 112:21 123:15 138:11 133:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 134:15 138:11 135:15 138:11 135:15 138:15 137:24 40:10 132:12 16x:19 132:12 16x:19 12x:11 6x:18 6x:27 13x:18 110:10 132:12 16x:19 132:12 133:13:15 132:12 16x:19 132:12 133:13:15 132:12 16x:19 132:12 12x:13 132:12 16x:19 132:12 13x:13 132:12 16x:19 132:12 13x:13 132:12 16x:19 132:12 13x:13 132:12 16x:19 132:12 13x:13 133:13:15 132:12 16x:19 132:12 13x:13 133:13:15 132:12 16x:19 132:12 13x:13 133:13:15 132:12 13x:13 133:13:15 132:12 13x:19 132:12 13x:13 133:13:15 132:12 13x:13 133:13:15 133:13:15 133:13:15 133:13:15 133:13:15 133:13:15 133:13:15 13					•	
capacity 114:11   110:19 112:21   CD 11:12   CD 17:25,6   charts 68:7   73:24 81:7 87:7   clean-up 18:5.8   clear 5:14,20 38:21   43:51,70   carcinogenic 40:25   152:5153:23   152:5153:23   152:5153:23   152:5153:23   179:12 181:18   179:12 181:18   179:12 181:18   179:42 19:13 16:20   179:12 181:18   179:12 181:18   179:12 181:18   186:1   179:12 181:18	2	,				
13:5.15 138:11   CDD 72:5.6   cell 116:10.24   13:11.25 15:153:23   13:25 13:23   13:25 153:23		1			<b>•</b> • • • • • • • • • • • • • • • • • •	1
darcinogen 41:5,20	1					
43.7, ID carcinogenic 40:25   159:13 176:20   159:13 176:20   179:12 181:18   179:12 181:18   179:12 181:18   179:12 181:18   186:1   179:12 181:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   186:1   179:4 11:18   137:21   128:4 129:6   133:135:6   137:21   136:12 137:7,10   136:12 137:7,10   136:12 137:7,10   136:12 137:1,10	1	•	1 '	1	1	
carcinogenic 40:25   159:13 176:20   19:23 20:7 99:8   175:13   109:14 127:47   129:19 148:8   179:12 181:18				i		4
96.9 I\(\tau\)2.22   178.6,11 179:10   19:23 20:7 99:8   175:13   109:14 127:4,7   127:11,14,15,18   157:21   128:14   186:1   9:17 10:24 11:18   14:25 15:16   14:25 15:16   16:24 126:1,16   63:4 68:19 73:6   12:14 51:5   137:21   136:12 137:7,10   136:5 169:2   16:24 126:1,16   78:25 18:16 85:25   186:25 187:6   186:25 187:6   186:25 187:6   186:25 187:12   22:19 13:10 23:1,14   23:19 32:10   23:10   23:11,14   23:15:14   23:15   23:15   23:15   23:11,14   23:17,10   23:11,15   23:10   23:10   23:11,14   23:11,13   23:10   23:10   23:11,14   23:11,13   23:10   23:10   23:11,14   23:11,13   23:10   23:10   23:11,14   23:11,13   23:10   23:10   23:11,14   23:11,13   23:10   23:10   23:11,14   23:11,13   23:10		P	• • •	ſ	<i>t</i>	
146:25 147:3 carcinogens 41:11 97:42:198:1,3 1455,13 1455,13 1455,13 1455,13 1455,13 1455,13 1452,13 1624 126:1,16 1624 127:1,14,15,18 128:24 129:0,8 129:10 132:5,23 133:1 135:6 137:21 133:1 135:6 136:12 127:1,14,15,18 128:24 129:0,8 133:1 135:6 137:21 133:1 135:6 136:12 127:1,14,15,18 129:10 132:5,23 133:1 135:6 136:12 127:1,14,15,18 129:10 132:2,23 133:1 135:6 136:12 127:1 137:1,4,15,18 129:10 132:2,23 133:1 135:6 136:12 127:1 137:1,4,15,18 129:10 132:2,23 133:1 135:6 136:12 127:1 137:1,4,15,18 129:10 132:2,23 136:12 127:1 137:1,4,15,18 129:10 132:2,23 133:1 135:6 136:12 127:1 137:1,4,15,18 129:10 132:2,23 136:12 127:1 137:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1 137:1,4,15,18 129:10 132:2,123 136:12 137:1 136:12 127:1 137:1,4,15,18 129:10 132:2,123 136:12 137:1 137:1,4,15,18 129:10 132:2,123 136:12 137:1 137:1,4,15,18 129:10 132:2,13 136:12 137:1 14:10 157:1 137:14,25 137:14,25 137:14,25 137:14,25 137:14,25 137:14,27 133:11 136:1 137:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:11 139:1 133:1	_	l .				
carcinogens 41:11 97:4,21 98:1,3 145:6,13 carcinoma 116:22 63:4 68:19 73:6 146:25 63:4 68:19 73:6 146:25 15:6 16:122 62:23 16:24 126:1,16 78:21 86:5,5,24 87:18 78:21 86:5,5,24 87:18 78:21 86:5,5,24 87:18 78:21 88:5 90:21 94:8 88:5 90:21 94:8 94:10 94:10 94:10 94:10 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:19 78:13 136:17 78:11 78:13 78:19 78:13 136:17 78:11 78:13 78:11 78:13 78:	•	1				
97:4,21 98:1,3 145:6,13 145:6,13 145:6,13 16:22 126:24:24 16:24 126:1,16 16:24 127:1 133:1 135:6 133:1 135:6 137:1,12 140:18 27:7 140:11 137:7,10 136:12 137:7,10 136:12 137:7,10 136:12 137:7,10 136:12 137:7,10 136:12 137:7,10 136:12 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 136:13 137:7,10 130:13 13:13		1		1		
145:6,13 carcinoma 116:22 136:34 68:19 73:6 116:24 126:1,16 cardiac 47:12 Cardiology 47:12 cardiovascular 37:10 40:10 47:8 140:18,22 141:8 care 25:15 34:11 39:7,10,18 40:1 39:2,10 30:1 39:2,10 30:1 39:2,10 30:1 30:1,1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,2 10:1 30:1,3 13:13:5 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:1 30:13:13:13:0 30:14:13:1 30:2,1 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:13:1 30:1,2 10:1					•	
carcinoma 116:22         63:4 68:19 73:6         21:14 51:5         31:5,9 41:21         136:12 137:7,10         136:5 169:2         clear-ut 62:24 clambed 7:12         136:25 187:6         136:25 187:6         136:25 187:4         136:12 137:7,10         136:5 169:2         clear-ut 62:24 clambed 7:12         clear-ut 62:24 clambed 7:13:13:13:17:10         136:5 169:2 clambed 7:13:13:17:10         136:5 169:2 clambed 7:14:31:10         clambed 7:14:32:10         clambed 7:14:32:		•	L .			
116:24 126:1,16 cardiac 47:12		9		1		
cardiac 47:12         86:5,6,24 87:18         Central 3:12         92:6 93:7,12         143:10 159:7         climb 64:18         climb 17:2,5	4			· '	,	
Cardiology 47:12 cardiovascular         88:5 90:21 94:8 94:10         certain 30:14,14 31:19 32:10         94:17 96:11,25 97:4,20 115:15 97:4,20 115:15 133:17 136:4 137:10 131:17 136:4 140:18,22 141:8 132:13 136:17 78:13 136:17 78:13 136:17 86:21 99:20 179:4 178:61,14 170:20 139:7,10,18 40:1 63:6,12,15 65:22 66:6,9,21 67:11 63:65 22 110:25 155:17 67:14,17 70:20 96:24 99:22 156:10,15,19 70:21,23 71:1,5 126:10,15,19 122:2 136:10,15,19 122:1 136:20 136:21 136:	•		1		•	
cardiovascular         94:10         31:19 32:10         97:4,20 115:15         65:11 133:7,10         clinical 24:15,22         26:10 28:1,2,44           37:10 40:10 47:8         140:18,22 141:8         category 41:10         66:7 71:17 77:5         178:6,14,21,22         140:9 159:8         100:17 101:14           34:25 35:11,14         38:21 36:61         86:21 99:20         179:4         161:1         107:17 136:20           39:7,10,18 40:1         63:6,12,15 65:22         66:69,21 67:11         106:10 161:23         chemically-indu         circle 89:12 114:1         107:17 136:20           44:4 69:22         66:69,21 67:11         54:24 95:20         96:24 99:22         135:9 136:21         178:13,22           156:10,15,19         70:21,23 71:1,5         106:7 160:12         12:6 19:16 20:23         135:9 136:21         178:13,22           2arefully 106:6         93:19,21,25 93:1,1         30:2,11         65:1,4 66:23         circulation 18:23         closer 136:10           2arred 17:4 185:6         95:16 98:25         30:5 194:1         95:1 97:7 115:23         18:5         177:6           2arred 17:4 185:6         107:25         95:16 98:25         125:21 126:25         132:2,19,21,21         creatified 2:21         79:10 80:4 81:11         ciculation 18:23         closes 194:13           2arred 17	•			•		
37:10 40:10 47:8 140:18,22 141:8 care 25:15 34:11 34:25 35:11,14 39:7,10,18 40:1 39:1,12,11	. ~		I '			
140:18,22 141:8       category 41:10       66:7 71:17 77:5       178:6,14,21,22       140:9 159:8       100:17 101:14         34:25 35:11,14       33:25 35:11,14       causation 62:19,21       66:61,215 65:22       66:69,21 67:11       106:10 161:23       chemically-indu       circle 89:12 114:1       107:17 136:20       close 64:11 76:4       92:8 94:23       144:46,17 118:9       92:8 94:23       145:13,22       115:14,6,17 10:14       107:17 136:20       close 64:11 76:4       92:8 94:23       144:46,17 118:9       92:8 94:23       145:20       close 64:11 76:4       92:8 94:23       156:10,11,19       170:21,23 71:1,5       106:7 160:12       12:6 19:16 20:23       135:9 136:21       178:13,22       188:22       closety 42:6 60:11       170:11 <td></td> <td></td> <td></td> <td>,</td> <td>7</td> <td></td>				,	7	
care 25:15 34:11         78:13 136:17         86:21 99:20         179:4         161:1         107:17 136:20         close 64:11 76:4         99:18 122:3         118:3         20:21         114:4,6,17 118:9         114:4,6,17 118:9         21:83 92:2         118:3 12:21         118:3 12:20         118:3 13:21         118:3 13:9         135:9 136:21         178:13,22         178:13,22         178:13,22         188:22         closely 42:6 60:11         177:6         188:22         closely 42:6 60:11         107:16 109:1         107:16 109:1         109:16         109:16         109:16         109:14         107:16 109:1         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         109:16         1	1		9			
34:25 35:11,14 39:7,10,18 40:1 63:6,12,15 65:22 66:6,9,21 67:11 110:25 155:17 110:25 155:17 110:25 155:17 15:31 110:25 155:17 15:417 70:20 15:10,15,19 17:10,59 80:16,19 17:11 17:21 17:22 189:4 91:1,2,11 17:22 193:4,5,12,14,15 106:7 160:12 106:10 161:23 170:11 170:10 170:16 109:1 170:60 170:16 109:1 170:60 170:16 109:1 170:16 109:1 170:16 109:1 170:17 170:18:9 170:18:9 170:19 170:19 180:14 177:6 108:14 177:16 108:14 177:6 108:14 170:12 108:1	•		1			I
39:7,10,18 40:1 44:4 69:22 66:6,9,21 67:11 10:25 155:17 67:14,17 70:20 96:24 99:22 156:10,15,19 70:21,23 71:1,5 106:7 160:12 110:25 156:10,15,19 70:21,23 71:1,5 106:7 160:12 170:11 170:14 170:16 108:14 177:16 108:14 177:16 108:14 177:16 108:14 177:16 108:14 177:16 1	•	4		,		
44:4 69:22       66:6,9,21 67:11       54:24 95:20       chemicals 9:19,23       135:9 136:21       178:13,22         110:25 155:17       67:14,17 70:20       96:24 99:22       9:24 10:14,18       137:3 142:20       188:22         156:10,15,19       70:21,23 71:1,5       170:11       53:21 63:1,16,22       168:8       circulation 18:23       closely 42:6 60:11         45:25       89:4 91:1,2,11       certification 29:14       65:1,4 66:23       circumstance       108:14       177:6         72:22       93:4,5,12,14,15       93:19,21,25 94:6       93:19,21,25 94:6       93:19,21,25 94:6       93:19,21,25 94:6       93:19,21,25 94:6       93:19 94:3,22       32:21 135:11       circumstances       closest 94:13       cocaine 160:21,22         107:25       95:16 98:25       30:5 194:1       95:1 97:7 115:23       32:21 135:11       citation 186:6,7,12       16:13         carried 17:4 185:6       108:23 111:24       certify 194:2,13       118:3 122:13       188:5       cite 44:3       Code 194:6         Carver 89:12       causative 65:20       125:21 126:25       132:2,19,21,21       138:1,12 139:23       city 9:6 11:7 16:16       codes 98:17,20         18:9 135:9       129:3       128:2,48,10,14       143:24 165:3       170:7       51:2,4 52:2,4,14       77:9 114:19       <				<u> </u>		
110:25 155:17       67:14,17 70:20       96:24 99:22       9:24 10:14,18       137:3 142:20       188:22         156:10,15,19       70:21,23 71:1,5       106:7 160:12       12:6 19:16 20:23       168:8       circulation 18:23       closely 42:6 60:11         45:25       89:4 91:1,2,11       certification 29:14       65:1,4 66:23       circulation 18:23       cisex 19:13:14:13       cisex 19:14:14:15:15:12						•
156:10,15,19						
career 35:1,6       71:6,9 80:16,19       170:11       53:21 63:1,16,22       circulation 18:23       107:16 109:1         45:25       89:4 91:1,2,11       30:2,11       76:14 77:16       108:14       177:6         72:22       93:4,5,12,14,15       28:18 29:5,8,11       79:10 80:4 81:11       108:14       177:6         carefully 106:6       93:19,21,25 94:6       95:16 98:25       30:5 194:1       95:1 97:7 115:23       32:21 135:11       cocaine 160:21,22         carried 17:4 185:6       108:23 111:24       certify 194:2,13       118:3 122:13       188:5       Code 194:6         Carver 89:12       112:24 143:19       cervical 116:19       125:21 126:25       132:2,19,21,21       138:1,12 139:23       128:1,45,68,14       cites 48:17 182:16       codes 98:17,20         118:9 135:9       129:3       129:3       128:2,4,8,10,14       136:24 137:3       138:1,12 139:23       143:24 165:3       15:2,4 52:2,4,14       102:6 174:13         142:19       43:11 63:18 66:7       130:6,9,12,14       130:6,9,12,14       129:13       136:10       177:6       circumstance       closest 94:13       cocaine 160:21,22         170:7       15:23       188:5       Cite 84:17 182:16						
45:25			1			
careful 58:24         91:13,25 93:1,1         30:2,11         76:14 77:16         108:14         177:6           72:22         93:4,5,12,14,15         28:18 29:5,8,11         30:2,11         76:14 77:16         108:14         circumstances         closest 94:13           carefully 106:6         93:19,21,25 94:6         28:18 29:5,8,11         93:11 94:3,22         32:21 135:11         cocaine 160:21,22           107:25         95:16 98:25         30:5 194:1         95:1 97:7 115:23         188:5         Code 194:6           carried 17:4 185:6         108:23 111:24         certify 194:2,13         118:3 122:13         188:5         Code 194:6           carrying 160:10         112:24 143:19         cervical 116:19         127:6 128:6         cite 84:17 182:16         codes 98:17,20           Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cited 42:3         99:1,3,4,6,8,14           118:9 135:9         129:3         129:3         128:2,4,8,10,14         143:24 165:3         city 9:6 11:7 16:16         cognitive 141:15           136:21 137:3         cause 42:9,12 43:8         128:19 129:4,22         170:7         51:2,4 52:2,4,14         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         131:4,21 132:3         22:15				1 ''		ł –
72:22         93:4,5,12,14,15         certified 2:21         79:10 80:4 81:11         circumstances         closest 94:13           107:25         95:16 98:25         30:5 194:1         95:1 97:7 115:23         citation 186:6,7,12         161:3           carried 17:4 185:6         108:23 111:24         certify 194:2,13         118:3 122:13         188:5         Code 194:6           carrying 160:10         112:24 143:19         cervical 116:19         127:6 128:6         cite 84:17 182:16         codes 98:17,20           Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cite 84:17 182:16         codes 98:17,20           118:9 135:9         129:3         128:2,4,8,10,14         143:24 165:3         city 9:6 11:7 16:16         cognition 152:15           136:21 137:3         cause 42:9,12 43:8         128:19 129:4,22         170:7         51:2,4 52:2,4,14         cohort 17:16 21:14           142:19         43:11 63:18 66:7         130:6,9,12,14         Chernobyl 22:11         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         134:11         chest 89:9 116:1,2         civil 194:6         176:3 180:9,23           23:10 32:7 33:20         89:15 90:4 91:4         134:11         chest 89:9 116:1,2         claim 8:17,21         182:7 188:9						
carefully 106:6         93:19,21,25 94:6         28:18 29:5,8,11         93:11 94:3,22         32:21 135:11         cocaine 160:21,22           107:25         95:16 98:25         30:5 194:1         95:1 97:7 115:23         188:5         Code 194:6           carrying 160:10         112:24 143:19         cervical 116:19         127:6 128:6         cite 84:17 182:16         codes 98:17,20           Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cited 42:3         99:1,3,4,6,8,14           118:9 135:9         89:8 122:23         126:25 127:2,5,7         138:1,12 139:23         cites 170:12         cognition 152:15           136:21 137:3         cause 42:9,12 43:8         128:19 129:4,22         170:7         51:2,4 52:2,4,14         cohort 17:16 21:14           142:19         43:11 63:18 66:7         130:6,9,12,14         Chernobyl 22:11         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         131:4,21 132:3         22:15         civil 194:6         176:3 180:9,23           23:10 32:7 33:20         89:15 90:4 91:4         134:11         cervix 116:23,25         116:3         23:14         cohorts 15:16           39:20 40:2,15         99:18 122:1         126:16,22 127:1         Chicago 3:10         claimed 23:12         coke 78:9,					•	
107:25       95:16 98:25       30:5 194:1       95:1 97:7 115:23       citation 186:6,7,12       161:3         carried 17:4 185:6       108:23 111:24       certify 194:2,13       118:3 122:13       188:5       Code 194:6         carrying 160:10       112:24 143:19       cervical 116:19       127:6 128:6       cite 84:17 182:16       codes 98:17,20         Carver 89:12       causative 65:20       125:21 126:25       132:2,19,21,21       cite 42:3       99:1,3,4,6,8,14         118:9 135:9       129:3       129:3       128:2,4,8,10,14       143:24 165:3       city 9:6 11:7 16:16       cognition 152:15         136:21 137:3       cause 42:9,12 43:8       128:19 129:4,22       170:7       51:2,4 52:2,4,14       cohort 17:16 21:14         142:19       43:11 63:18 66:7       130:6,9,12,14       Chernobyl 22:11       77:9 114:19       102:6 174:13         case 5:11 13:19       66:10 81:7 89:1       131:4,21 132:3       22:15       civil 194:6       176:3 180:9,23         23:10 32:7 33:20       89:15 90:4 91:4       134:11       chest 89:9 116:1,2       claim 8:17,21       182:7 188:9         39:20 40:2,15       99:18 122:1       126:16,22 127:1       Chicago 3:10       claimed 23:12       coke 78:9,9,14	carefully 106:6			•		
carried 17:4 185:6         108:23 111:24         certify 194:2,13         118:3 122:13         188:5         Code 194:6           carrying 160:10         112:24 143:19         cervical 116:19         127:6 128:6         cite 84:17 182:16         codes 98:17,20           Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cited 42:3         99:1,3,4,6,8,14           114:1,3,5,16         89:8 122:23         126:25 127:2,5,7         138:1,12 139:23         cites 170:12         cognition 152:15           118:9 135:9         129:3         128:2,4,8,10,14         143:24 165:3         170:7         51:2,4 52:2,4,14         cohort 17:16 21:14           142:19         43:11 63:18 66:7         130:6,9,12,14         Chernobyl 22:11         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         131:4,21 132:3         22:15         civil 194:6         176:3 180:9,23           23:10 32:7 33:20         89:15 90:4 91:4         134:11         chest 89:9 116:1,2         claim 8:17,21         182:7 188:9           39:20 40:2,15         99:18 122:1         126:16,22 127:1         Chicago 3:10         claimed 23:12         coke 78:9,9,14						<b>.</b>
carrying 160:10         112:24 143:19         cervical 116:19         127:6 128:6         cite 84:17 182:16         codes 98:17,20           Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cited 42:3         99:1,3,4,6,8,14           114:1,3,5,16         89:8 122:23         126:25 127:2,5,7         138:1,12 139:23         cites 170:12         cognition 152:15           118:9 135:9         129:3         128:2,4,8,10,14         143:24 165:3         city 9:6 11:7 16:16         cognition 152:15           136:21 137:3         cause 42:9,12 43:8         128:19 129:4,22         170:7         51:2,4 52:2,4,14         cohort 17:16 21:14           142:19         43:11 63:18 66:7         130:6,9,12,14         Chernobyl 22:11         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         131:4,21 132:3         22:15         civil 194:6         176:3 180:9,23           23:10 32:7 33:20         89:15 90:4 91:4         134:11         chest 89:9 116:1,2         claim 8:17,21         182:7 188:9           34:12,15 38:25         92:12 97:7,10,18         cervix 116:23,25         116:3         23:14         cohorts 15:16           39:20 40:2,15         99:18 122:1         126:16,22 127:1         Chicago 3:10         claimed 23:12         coke 78:9,9,14		108:23 111:24	certify 194:2,13		,	Code 194:6
Carver 89:12         causative 65:20         125:21 126:25         132:2,19,21,21         cited 42:3         99:1,3,4,6,8,14           114:1,3,5,16         89:8 122:23         126:25 127:2,5,7         138:1,12 139:23         cities 170:12         cognition 152:15           118:9 135:9         129:3         128:2,4,8,10,14         143:24 165:3         city 9:6 11:7 16:16         cognitive 141:15           136:21 137:3         cause 42:9,12 43:8         128:19 129:4,22         170:7         51:2,4 52:2,4,14         cohort 17:16 21:14           142:19         43:11 63:18 66:7         130:6,9,12,14         Chernobyl 22:11         77:9 114:19         102:6 174:13           case 5:11 13:19         66:10 81:7 89:1         131:4,21 132:3         22:15         civil 194:6         176:3 180:9,23           23:10 32:7 33:20         89:15 90:4 91:4         134:11         chest 89:9 116:1,2         claim 8:17,21         182:7 188:9           34:12,15 38:25         92:12 97:7,10,18         cervix 116:23,25         116:3         23:14         cohorts 15:16           39:20 40:2,15         99:18 122:1         126:16,22 127:1         Chicago 3:10         claimed 23:12         coke 78:9,9,14		112:24 143:19			cite 84:17 182:16	
114:1,3,5,16       89:8 122:23       126:25 127:2,5,7       138:1,12 139:23       cities 170:12       cognition 152:15         118:9 135:9       129:3       128:2,4,8,10,14       143:24 165:3       city 9:6 11:7 16:16       cognitive 141:15         136:21 137:3       cause 42:9,12 43:8       128:19 129:4,22       170:7       51:2,4 52:2,4,14       cohort 17:16 21:14         142:19       43:11 63:18 66:7       130:6,9,12,14       Chernobyl 22:11       77:9 114:19       102:6 174:13         case 5:11 13:19       66:10 81:7 89:1       131:4,21 132:3       22:15       civil 194:6       176:3 180:9,23         23:10 32:7 33:20       89:15 90:4 91:4       134:11       chest 89:9 116:1,2       claim 8:17,21       182:7 188:9         34:12,15 38:25       92:12 97:7,10,18       cervix 116:23,25       116:3       23:14       cohorts 15:16         39:20 40:2,15       99:18 122:1       126:16,22 127:1       Chicago 3:10       claimed 23:12       coke 78:9,9,14		causative 65:20				
118:9 135:9       129:3       128:2,4,8,10,14       143:24 165:3       city 9:6 11:7 16:16       cognitive 141:15         136:21 137:3       cause 42:9,12 43:8       128:19 129:4,22       170:7       51:2,4 52:2,4,14       cohort 17:16 21:14         142:19       43:11 63:18 66:7       130:6,9,12,14       Chernobyl 22:11       77:9 114:19       102:6 174:13         case 5:11 13:19       66:10 81:7 89:1       131:4,21 132:3       22:15       civil 194:6       176:3 180:9,23         23:10 32:7 33:20       89:15 90:4 91:4       134:11       chest 89:9 116:1,2       claim 8:17,21       182:7 188:9         34:12,15 38:25       92:12 97:7,10,18       cervix 116:23,25       116:3       23:14       cohorts 15:16         39:20 40:2,15       99:18 122:1       126:16,22 127:1       Chicago 3:10       claimed 23:12       coke 78:9,9,14	114:1,3,5,16	89:8 122:23	1			
136:21 137:3     cause 42:9,12 43:8     128:19 129:4,22     170:7     51:2,4 52:2,4,14     cohort 17:16 21:14       142:19     43:11 63:18 66:7     130:6,9,12,14     Chernobyl 22:11     77:9 114:19     102:6 174:13       case 5:11 13:19     66:10 81:7 89:1     131:4,21 132:3     22:15     civil 194:6     176:3 180:9,23       23:10 32:7 33:20     89:15 90:4 91:4     134:11     chest 89:9 116:1,2     claim 8:17,21     182:7 188:9       34:12,15 38:25     92:12 97:7,10,18     cervix 116:23,25     116:3     23:14     cohorts 15:16       39:20 40:2,15     99:18 122:1     126:16,22 127:1     Chicago 3:10     claimed 23:12     coke 78:9,9,14	•	129:3				
142:19       43:11 63:18 66:7       130:6,9,12,14       Chernobyl 22:11       77:9 114:19       102:6 174:13         case 5:11 13:19       66:10 81:7 89:1       131:4,21 132:3       22:15       civil 194:6       176:3 180:9,23         23:10 32:7 33:20       89:15 90:4 91:4       134:11       chest 89:9 116:1,2       claim 8:17,21       182:7 188:9         34:12,15 38:25       92:12 97:7,10,18       cervix 116:23,25       116:3       23:14       cohorts 15:16         39:20 40:2,15       99:18 122:1       126:16,22 127:1       Chicago 3:10       claimed 23:12       coke 78:9,9,14	136:21 137:3	cause 42:9,12 43:8				
case 5:11 13:19     66:10 81:7 89:1     131:4,21 132:3     22:15     civil 194:6     176:3 180:9,23       23:10 32:7 33:20     89:15 90:4 91:4     134:11     chest 89:9 116:1,2     claim 8:17,21     182:7 188:9       34:12,15 38:25     92:12 97:7,10,18     cervix 116:23,25     116:3     23:14     cohorts 15:16       39:20 40:2,15     99:18 122:1     126:16,22 127:1     Chicago 3:10     claimed 23:12     coke 78:9,9,14	142:19					
23:10 32:7 33:20     89:15 90:4 91:4     134:11     chest 89:9 116:1,2     claim 8:17,21     182:7 188:9       34:12,15 38:25     92:12 97:7,10,18     cervix 116:23,25     116:3     23:14     cohorts 15:16       39:20 40:2,15     99:18 122:1     126:16,22 127:1     Chicago 3:10     claimed 23:12     coke 78:9,9,14	case 5:11 13:19			•		
34:12,15 38:25 92:12 97:7,10,18 cervix 116:23,25 116:3 23:14 cohorts 15:16 39:20 40:2,15 99:18 122:1 126:16,22 127:1 Chicago 3:10 claimed 23:12 coke 78:9,9,14	23:10 32:7 33:20					
39:20 40:2,15 99:18 122:1 126:16,22 127:1 Chicago 3:10 claimed 23:12 coke 78:9,9,14	34:12,15 38:25	92:12 97:7,10,18				
	39:20 40:2,15			•	L	L
	43:25 45:18	129:25 138:10			1	
				<u> </u>	1	<u> </u>

		<del></del>			
collapse 9:14,17	108:10,24 136:9	194:11	considered 51:15	118:16 128:23	88:13 94:2,8,14
10:25	139:9 158:6	conceivably 95:22	78:10,12,14	129:7,23 134:22	95:7 96:5 101:3
collect 8:13 51:4	179:11	concentration	100:7 154:24	138:2 143:5	101:8 106:24
52:13 64:6,7,20	communicated	20:25 51:18	consistent 10:22	contribution 63:1	109:21 115:1
65:14,17 67:5	34:8 43:25 69:17	97:25 115:19	16:9 49:24 57:8	92:10 115:15	118:14,21
72:15,18 75:18	communicating	166:10 167:2	85:2,9 153:21	117:11 160:16	119:19 120:3
75:20 85:11,12	88:7	176:9	consistently 182:2	control 59:3 76:13	121:11 123:14
103:6,13 105:25	communication	concentrations	constituent 34:14	91:20 100:2	123:16,22,23,25
106:14,16	32:20 182:18	41:25 96:18 97:8	constituents 95:5,6	101:5,6 108:20	125:6,9,10,18,21
collected 49:12,15	communicative	97:12 98:2	constitute 9:22	111:3 143:14	125:23 128:25
49:16 52:6 56:1	167:17	concept 55:18	constraints 16:18	171:13,16	130:7 134:11,12
56:2 68:21 71:7	community 46:15 50:10	89:23 96:10 97:3	construct 84:2	173:22 174:1,14	135:9 137:4
71:22,22 72:3 76:16 80:1,8	companies 8:7	97:6 concern 22:16	constructing 88:22	176:17 177:10 177:15 180:4	139:5 153:25
82:2 83:25 88:9	companies 6:7 company 8:6 24:7	34:14,15 69:14	contact 27:2,10,11 65:3	181:16 183:19	161:18 163:5,6 165:16 166:6,7
90:24,25 173:7,9	79:22 190:21	154:12	contacting 69:25	184:1,4,6,9	166:12 170:2,24
173:12 182:19	company's 76:11	concerns 69:18	contained 53:18	185:19,20,23	171:2 175:25
182:20	company \$ 70.11 compare 92:16	conclusion 54:3,14	containing 113:5	186:3,7 187:2,5	176:21,22 180:6
collecting 66:15,16	compared 77:5	56:10 71:8 90:18	contains 94:24	187:10 188:1,10	180:10,15,16
68:19 70:20	compared 77.3	91:6,9 92:9	contamis 94.24 contaminant 22:16	188:25	184:18,22,25
collection 59:24,25	100:23	108:6	34:15	controlled 107:17	186:6 193:12
60:2 72:1 76:17	comparison 91:19	conclusions 54:4	contaminants	107:25 109:1	correctly 171:7
80:12 109:13	92:17 109:3	55:5,11,12,15	43:22 121:21	140:22	correlation 159:12
collects 80:19	173:16	62:11,14,14,16	contaminated	controls 101:16	corroborated
College 29:18,21	comparisons	62:18,19 66:24	114:16,20	171:11,12,20	147:1
Collegium 30:16	180:12	90:15 112:8	contaminating	176:13,19,21	cost-effective
31:1	compatible 10:14	condition 37:7	77:18	177:7 178:8	105:24
Collins 3:19 81:15	82:10 86:7	40:8 94:18 116:1	contamination	179:5,11 180:12	cough 10:5 87:7,8
colon 102:19	compiled 113:7	136:5 156:16	34:16 159:11	187:9,24 188:13	89:9 116:1 153:9
108:24	133:24	163:13	contaminations	188:19	165:19,19
Columbus 68:6,17	complain 123:24	conditions 9:2 30:1	153:14	Controls-Dallas	council 104:6
COMMINS 00.0,17	COMPIAN 123.24	COMMINION 7.2 JU.1	133.17		COUNTER TO 1.0
68:23,24 77:8	137:8,16	35:5 36:14 40:13	contemporaneou	176:11	counsel 194:13
68:23,24 77:8 135:1 137:11	137:8,16 complained 10:11	35:5 36:14 40:13 85:14 117:1,4	contemporaneou 177:6	176:11 coordinated	counsel 194:13 count 51:21 116:10
68:23,24 77:8 135:1 137:11 139:7 158:8	137:8,16 complained 10:11 28:7 114:13	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3	contemporaneou 177:6 content 41:23	176:11 coordinated 166:17	counsel 194:13 count 51:21 116:10 116:11,11
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10	137:8,16 complained 10:11 28:7 114:13 152:17	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23	contemporaneou 177:6 content 41:23 159:12	176:11 coordinated 166:17 coordination	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4	contemporaneou 177:6 content 41:23 159:12 contents 193:7	176:11 coordinated 166:17 coordination 166:12	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contractions 76:10	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2 complex 52:21	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contractions 76:10 contradiction	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2 complex 52:21 87:19	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2 complex 52:21 87:19 complexes 86:2,21	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2 complex 52:21 87:19	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-authors 172:10 co-factor 126:24
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completely 157:2 complexes 86:2,21 87:19 complexes 86:2,21 87:1,3,5,25 88:2	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-authors 172:10
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completely 157:2 complexes 86:2,21 87:19 complexes 86:2,21 87:1,3,5,25 88:2 88:12 complications 39:6 components 22:18	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-authors 172:10 co-factor 126:24 127:3 130:2,15
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completely 157:2 complexes 86:2,21 87:19 complexes 86:2,21 87:1,3,5,25 88:2 88:12 complications 39:6 components 22:18 compound 94:17	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence 114:13 163:1	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-authors 172:10 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10 133:17 comments 49:25	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completed 15:23 20:20 2	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence 114:13 163:1 consider 54:25 57:13 69:24 77:14	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5 160:10 contributed 118:1 118:5 121:22	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16 66:17,18 71:1 72:16,21 73:19 73:20,25 74:17	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-authors 172:10 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13 created 113:12
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10 133:17 comments 49:25 50:4,13 190:8	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 complexes 86:2,21 87:19 complexes 86:2,21 87:19 complexes 86:2,21 87:13,5,25 88:2 88:12 complications 39:6 compound 94:17 95:4,5,10,13 compounds 77:6	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connective 98:5 consciousness 115:17 consequence 114:13 163:1 consider 54:25 57:13 69:24 77:14 consideration	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5 160:10 contributed 118:1 118:5 121:22 128:1 129:4	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16 66:17,18 71:1 72:16,21 73:19 73:20,25 74:17 74:21,25 75:4,12	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-authors 172:10 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13 created 113:12 credible 153:11
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10 133:17 comments 49:25 50:4,13 190:8 common 37:7,14	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completed 15:23 2 164:2 complexes 86:2,21 87:19 complexes 86:2,21 87:19 complexes 86:2,21 87:13,5,25 88:2 88:12 complications 39:6 compounds 77:6 81:13 186:10	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence 114:13 163:1 consider 54:25 57:13 69:24 77:14 consideration 145:17 153:16	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5 160:10 contributed 118:1 118:5 121:22 128:1 129:4 132:21 134:24	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16 66:17,18 71:1 72:16,21 73:19 73:20,25 74:17 74:21,25 75:4,12 75:15 79:13 80:2	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-author 13:25 co-author 13:25 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13 created 113:12 credible 153:11 creosote 34:16
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10 133:17 comments 49:25 50:4,13 190:8 common 37:7,14 55:21 74:7,11	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 complete 117:14 completed 15:23 164:2 completely 157:2 complexes 86:2,21 87:19 complexes 86:2,21 87:1,3,5,25 88:2 88:12 complications 39:6 compounds 77:6 81:13 186:10 computer 113:4	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence 114:13 163:1 consider 54:25 57:13 69:24 77:14 consideration 145:17 153:16 considerations	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5 160:10 contributed 118:1 118:5 121:22 128:1 129:4 132:21 134:24 148:12 173:3,18	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16 66:17,18 71:1 72:16,21 73:19 73:20,25 74:17 74:21,25 75:4,12 75:15 79:13 80:2 80:13 82:17,20	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-authors 172:10 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13 created 113:12 credible 153:11 creosote 34:16 76:24 94:24,25
68:23,24 77:8 135:1 137:11 139:7 158:8 165:1 172:10 173:16 180:2,3 189:16 combination 116:6 119:3 167:25 combine 181:10 come 7:22 8:21 20:20 26:21 27:3 27:6 32:9 33:12 33:13 48:19 65:3 111:23 120:9 162:25 171:5 185:23 comes 21:6 33:6,8 comfort 50:23 coming 65:2 76:9 82:10 108:17 168:10 174:5 commands 167:14 comment 133:7,10 133:17 comments 49:25 50:4,13 190:8 common 37:7,14	137:8,16 complained 10:11 28:7 114:13 152:17 complains 137:20 complaint 139:9 139:15 164:25 complaints 10:6,13 86:1 87:6 115:14 115:21 138:3,10 153:13,15 165:22 166:8 completed 15:23 164:2 completed 15:23 164:2 completed 15:23 2 164:2 complexes 86:2,21 87:19 complexes 86:2,21 87:19 complexes 86:2,21 87:13,5,25 88:2 88:12 complications 39:6 compounds 77:6 81:13 186:10	35:5 36:14 40:13 85:14 117:1,4 118:2,13 135:3 149:19 167:23 conference 110:4 confirm 113:11 confirmed 122:22 123:21 125:12 125:14 confirms 149:12 confusion 115:21 congener 19:2 congeners 171:2 173:23 180:6 183:17 congestive 140:20 connected 7:21 connective 98:5 consciousness 115:17 consequence 114:13 163:1 consider 54:25 57:13 69:24 77:14 consideration 145:17 153:16	contemporaneou 177:6 content 41:23 159:12 contents 193:7 context 91:17 92:13 153:8,12 continue 9:1 continued 127:23 150:18 continues 127:24 133:12 continuing 168:1 179:3 contracted 144:3 contracted 144:3 contractions 76:10 contradiction 136:23 contribute 9:25 66:10 88:23 121:20 127:8 134:10,13 136:5 160:10 contributed 118:1 118:5 121:22 128:1 129:4 132:21 134:24	176:11 coordinated 166:17 coordination 166:12 copy 6:6 134:3 187:2 192:12 cord 144:20 159:5 corn 169:24 170:6 cornfield 170:5 cornfields 170:8 correct 6:16 7:14 16:1 17:14 18:5 18:9 24:12 26:11 31:12 33:15,23 39:19 43:18,22 43:23 45:8 46:22 49:21 50:21 53:17 54:10,15 54:17 55:12 59:9 59:18,24 60:16 60:24 61:6,9,16 66:17,18 71:1 72:16,21 73:19 73:20,25 74:17 74:21,25 75:4,12 75:15 79:13 80:2	counsel 194:13 count 51:21 116:10 116:11,11 country 143:21 168:21 county 70:5 couple 36:10 48:20 104:3 112:2 course 45:24 64:23 77:21 92:22 court 1:1 2:1 5:19 172:14 175:16 179:21 183:7 185:10 189:8 cousin 170:6 covered 31:3 81:21 112:23 140:5 co-author 13:25 co-author 13:25 co-author 13:25 co-factor 126:24 127:3 130:2,15 132:5 create 56:2 73:2,22 163:11,13 created 113:12 credible 153:11 creosote 34:16

)

C

					Page 199
104:6,7,15	76:17 80:12 82:1	139:14,16	180:17 183:9,16	details 22:14 54:17	diagnostic 86:12
105:10,13,15	83:24 84:20,24	defect 150:3	184:5 185:12	detect 102:15	90:25
116:14,16 118:9	85:9,12,12 88:9	defects 38:22 39:3	186:7,14 189:10	128:17	die 75:8
118:19 121:14	88:10,10,19	165:6	•	· ·	
*			189:14 190:16	detectable 177:17	died 142:17,18
121:23 134:19	90:24 92:11 93:5	Defendant 3:12 4:8	191:1,6,7 194:4	detected 188:14	147:7
138:13,15,16,20	93:8 100:11,13	defendants 1:8	194:8	detecting 100:7	diet 92:19
139:1,6,10	100:15 102:15	2:10,17 3:7 5:11	depositions 89:21	detection 184:24	dietary 109:15
140:16 147:23	102:24 103:2,6,8	69:18 172:13	depression 10:12	188:20,22,24	difference 73:9
creosote-induced	103:14 104:14	175:15 179:20	depth 31:24	detections 171:21	77:25 81:19
139:2	104:17,19	183:6 185:9	<b>Derion</b> 149:10,15	determine 63:25	87:11 92:20,25
criteria 105:4	105:17 106:13	189:7	149:19 150:5	101:6 111:8	93:3 101:11
cross 23:20 69:25	106:14,16 107:1	deference 28:3	151:1 153:23	determines 131:13	142:8 177:3
crosses 74:24	108:6 111:13	deficits 150:13	154:3,4,16 155:4	detoxification	differences 102:15
CSR 1:23 194:20	113:7 122:2	define 45:12 93:3	155:15 156:1,9	12:13 13:9 14:16	106:24 107:7
cultures 13:1	131:5 143:9,11	definitely 134:15	157:1 158:18	14:17 21:25	142:9 191:12
	3	•			
curing 64:19	143:12 148:13	139:3 158:4	159:1 160:13	develop 12:19	different 8:8 14:17
current 6:3 14:10	148:15 149:3	186:15	163:4,25 164:5	118:23 136:10	16:6 17:20 25:25
80:21,23 84:4	152:10 153:6	definition 61:24	164:13 165:10	136:13	63:21 77:4 85:12
118:16 168:14	154:13 171:23	73:21 74:22,23	165:15 168:3	developed 122:13	86:11 91:19
currently 6:11 9:5	174:17 177:11	123:11 157:22	169:6,21	135:4 144:10	96:21,21 99:8,10
48:15 165:15	187:5,7,8 188:1	definitions 45:14	Derion's 156:15	145:2,4,16,18	99:12,14 100:1,4
custody 60:21	database 98:22	45:14	159:15 160:15	146:2,5,19,22	100:25 106:13
cutoff 51:15	date 113:20,21,22	degree 9:18 18:19	derive 111:18	147:13,17,21	106:23 110:11
CV 6:4 35:7	186:15	77:19	dermal 137:19	182:7	111:19 116:18
cyanate 110:24	daughters 148:17	degrees 10:6	164:14	developing 40:15	120:16,17
cylinders 76:5	Dave 51:7,24	deliver 161:10	dermatology 126:2	40:21 44:25	130:20,20,21,22
Cymiders 70.5	DAVID 3:4			•	
D		delivered 156:1	describe 9:12 12:1	146:13 147:17	130:22 152:8
	day 101:25 127:12	162:12	15:3 24:13 31:12	162:19,20	175:11 176:17
D 3:14	127:14,15,18	delivering 160:18	63:11 64:9 76:23	163:21	180:23 181:14
Dahlgren 1:13	129:6,9 133:12	delivery 161:4	80:11 88:4,6	development 39:15	181:22 183:21
2:16 4:3,15,17	133:14,16 140:9	demonstrate	97:6 109:19	126:24 134:10	184:11 185:25
5:4,9 60:9 81:18	140:15 193:13	102:24,25 141:4	110:8 111:22	134:14 149:13	187:16
112:14 189:21	194:17	169:2	124:6 153:11	152:15 159:15	differential 65:8
193:20	days 6:25 10:24	dental 38:13,15	described 13:3	developmental	89:3,4,5 91:1
Dallas 171:11,16	27:4 155:14	40:11	66:15 67:8,16	150:2 162:19	differentiated 45:7
174:1,13 176:19	de 110:24	department 51:8	70:9 71:15 79:6	Devrage 69:9	differently 94:4
179:1 180:9,12	dead 154:9 155:20	52:2,4 69:15,19	86:10 88:11,12	79:24	difficult 25:10 66:2
180:23 181:5,16	deal 72:22 96:19	70:6 81:4	96:12 111:22	diabetes 36:7	76:23 168:13
183:20		l .			
	142:6 181:23	departments 70:1	112:4 163:4	39:20 108:11	dig 175:3 187:23
damage 158:1	dealing 8:15 89:5	depend 53:23	170:3	140:21,25	dilute 101:21 102:8
damaged 136:15	deals 31:4 154:2	depending 19:1	describes 13:6 15:9	142:24,25 143:4	dioxin 11:2,8,15
dangerous 69:12	death 42:9 97:10	23:8 75:2 101:1	153:1	diabetic 142:12	15:17 16:3 18:1
147:5	deceased 142:8	111:5 120:22	describing 79:6	diabetics 39:24	18:15 19:20
data 11:7 45:4	151:10	151:22	87:11,13 88:3	diagnose 87:7	20:12 21:9,14
49:12,12,15,15	decent 111:2	depends 26:1 32:2	description 78:7	diagnosed 32:4	29:22 41:19
51:4,11 52:6,14	decide 46:13 47:16	32:21 40:22	99:4	86:5 87:24	43:10 71:16,25
52:18 53:15,16	decides 24:7 33:8	54:14 62:4 73:21	design 56:4,7 57:6	116:19,22 124:6	81:5 82:16 83:8
53:16,18,23 54:1	decision 48:1	74:4 106:1	101:9	142:16,18	118:20 121:14
54:4,7,15,20	declare 193:5,7,11	107:18 109:10	designated 184:17	152:21	121:23 122:10
55:3,6,10,11,20	decline 177:19,21	110:23 111:18			
			designation 126:19	diagnoses 85:23	129:7 130:5
55:23,24 56:1,6	179:1,2	160:6 177:25	designed 44:9 57:7	86:7,13,20,25	131:21 132:16
56:9,15 57:3,8	declined 177:23	188:19	91:17	89:3 123:3	134:20 138:8
57:11,16 60:4,6	decrease 19:13	deponent 193:5	desk 110:4	diagnosis 31:15,16	140:3 143:4
60:21 61:22,24	decreased 10:19,20	deposition 1:13	destroyed 66:3	31:17,20,21	162:12,17
64:22,23 65:14	115:20 166:11	2:16 5:12 89:17	destructors 143:23	62:23 63:4,5	170:22,23 171:1
66:15,17 67:5	166:11 167:5,8	133:20,22	detail 15:4 66:22	65:8 85:17,20,24	171:1,4 172:6,22
68:21 70:21,23	decreases 10:19	172:12,16,18	71:21 112:17	86:3,9,22,23	174:11 177:19
71:7,21,22,22	deep 121:4	175:14,20	135:19	88:5,11 89:5	177:21,22
72:1,3,15,18	defat 138:14	176:15 179:23	detailed 104:7	90:25 100:24	178:11,25 180:6
75:18,20 76:9,16	defatting 139:13	179:25 180:14	150:9	154:20 163:6	183:12,16
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		117.20 100.17	130.5	1,7,20 10,7,0	103,12,10
L	L		<u> </u>	<u> </u>	<u> </u>

					Page 200
dioxins 9:21 11:20	disfunction 165:5	dogmatic 120:1	drawing 150:17	east 3:7 169:9	83:19
11:24 12:10	dishonest 54:22,24	doing 69:24 76:22	drawn 55:5 174:7	easy 77:7	enteropatic 18:23
15:20 18:10,16	55:1,6,12,19,25	89:4 93:19 98:8	182:3	economic 16:18	entire 17:16 71:6
18:22,25 19:6	56:7	98:20,25 100:22	dreams 10:13	82:24 178:18	entirely 85:2
20:20,22 21:11	dishonesty 56:11	101:1 179:11	drew 7:2	editor 47:19,22,25	115:14
22:17 40:25 41:9	disks 113:5	dollar 82:25 83:5	drill 145:14	192:1,2	entirety 31:12
58:12 65:10	disorder 166:2	83:12,13,13	drink 74:4	editors 47:4,19	entrance 154:20
71:24 72:13 76:8	disorders 165:6	donated 17:3	drinker 160:14	education 150:20	environment 58:13
80:22 82:5 83:1	dispense 6:7	dosage 65:6	drinking 161:1	150:24	69:12 78:25 79:7
98:5 113:25	dispute 63:4	dose 66:9 73:1,1,6	drinks 75:7	effect 16:6 17:9	92:7 93:17
117:5,25 118:4,9	disputing 62:23	73:10,12,13,13	Drive 3:10	63:16 72:20 73:2	143:23 144:1
121:16,24 122:3	disrupt 121:25	73:14,16,18,22	driving 7:25	73:7,7,23,24	145:5 147:3,5,9
122:6 128:5,25	disruption 122:3	74:14,24 75:2,18	115:20	74:3 89:8 91:4	152:7 159:9
137:23 143:24	143:20	75:20 76:6,21	drop 74:1	92:12 96:9	164:12 169:1
147:24 149:20	distinction 7:2	77:7,25 78:1,6	dropped 16:7	101:21 102:8	170:4
164:6,20 167:20	77:22 181:20	79:1,6,13,14,15	dropping 82:25	106:18 131:12	environmental
168:2 171:15	distinctions 68:17	80:23 81:19,20	83:5,12 188:21	138:12,19 139:3	26:18 27:20
173:23 176:2	distinguish 7:4	83:22 84:2 91:5	drugs 161:2	156:15 161:14	29:21 31:6,8
177:14 178:12	distinguíshed	100:20 102:20	<b>dry</b> 116:3 138:4,14	161:14 162:5	48:18,19,22,24
direction 194:12	93:14	107:2,4 111:2	139:2,8,19	170:16 189:15	58:11 64:10
directly 14:11	distress 39:5	129:7 131:10	165:18	effective 15:10	69:20 78:4 81:4
152:1	distribute 43:16	160:6	drying 138:16	19:17	85:5 88:10,25
director 51:8 52:1	distributed 41:25	doses 41:21 82:4	139:17	effects 16:6 38:16	103:11 109:15
directors 52:3	distributes 41:21	85:14 100:25	dryness 116:15	38:20,24 63:17	122:24 131:10
dirt 80:8	DISTRICT 1:1,1	130:21	137:20 138:7	73:5 77:12 87:12	145:24 146:25
dirty 51:17	2:1,1	double-check	due 57:12 65:9	92:5 93:6 95:3	167:24 168:25
discarded 173:13	disturbance 10:12	49:12	115:14 143:19	116:7 120:7	177:1 182:17
181:24	124:10	doubt 167:21	143:22 153:14	140:10 142:1,3	190:4,5,7,9,10,14
discharge 64:25 76:14	ditches 64:14 76:2	dozens 7:19 36:24	156:21 157:4	176:2	191:21,22,25
	76:15 77:1	Dr 5:9 13:11,15,19	168:25	effort 20:19 21:5	environments 77:12
discharging 77:17 discipline 48:9	divide 31:7 divided 178:19	13:20,23 15:13	duly 194:4	89:18	
56:16	DIVISION 1:2 2:2	15:13 21:16,19 22:4 51:15 52:3	duration 19:1 156:12	either 29:19 44:3	enzyme 20:7 enzymes 36:14
disciplines 30:13	DIXON 3:8	52:13 57:4,14	dust 9:16,24 58:13	56:14,21 57:1 65:12 70:23,24	40:3
discovered 107:20	dizziness 115:16	58:15 60:9 69:8	68:8,10 72:4	71:2,9 93:7	epi 110:10
discreet 95:24	124:9	69:8 81:18 84:10	76:10 80:8 81:1	137:2 157:12	epidemic 168:20
discrepancies	DNA 68:22 82:17	84:11,16 85:9	81:2.9	161:17	169:18
152:7 153:6	83:2,19 176:2	101:22 102:5,16	dysfunction	elective 26:20	epidemics 45:13
discrepancy	doctor 13:16 21:19	103:22 104:2,10	122:17 123:3	elegant 159:4	epidemiologic
181:12 182:11	38:23 125:3	107:21 112:14	165:23	element 9:22 94:25	42:11,18 92:11
discuss 90:15	doctoring 25:7,10	114:10 124:5,13	133,20	144:13	105:10 111:23
115:11	25:12,18,20,25	124:24 125:5	E	elevated 36:14	epidemiological
discussed 118:4	26:12	126:4 128:21	earlier 7:2 11:16	40:2 68:9 82:8	42:23 43:4 63:19
discussion 82:9	doctors 8:7 27:5	133:3,5,6,6,8	15:3 51:3 52:12	82:14 99:2	85:7 91:11,12,16
99:24	32:10 39:7 40:8	141:13,18,21	77:19 82:9 88:11	eliminate 11:21	91:21 92:4,15
disease 37:11,14	46:21 65:25	149:11 150:7	91:12 92:14 97:9	Ellen 192:2,5,6	93:9,20 95:15
38:7 39:5 40:6	85:23 86:4	157:10 159:4,10	112:23 134:25	else's 55:15	98:21,24 100:5
40:10,11 47:11	122:20 123:24	169:2 172:8,17	146:6,24 147:22	emergency 69:7,11	100:18 104:20
47:12 71:10	132:25 134:5	173:1,19,21	155:21 186:13	emissions 76:13	106:9,11 108:5
91:22 93:13,18	doctor's 124:22	174:9,16,20,25	189:13	emphasized 53:2	109:2,8 162:4
95:17 97:1 98:20	document 68:23	175:23 176:13	early 13:10 22:4	employee 101:22	epidemiologist
108:11,17,18,21	184:22 187:12	176:24 180:9,13	35:6 128:18	190:23	179:14 190:20
110:25 112:24	189:14,25	180:17,21 181:8	138:25 144:2	employees 134:1	epidemiologists
130:3,17 140:19	documentation	181:12,25 182:6	146:23 147:6	encountered 18:2	46:21 98:17
	49:18 59:11 65:4	182:16 183:3	150:9 157:18	18:4 57:1	112:6
140:19,22 141:8	101.7		159:22 161:3,10	endocrine 143:20	epidemiology 42:4
144:3 147:7	131:7	188:2,5,5		440.00	
144:3 147:7 165:4,4,17,17,21	documented 21:25	draft 46:10 189:11	161:16,25	143:23	45:10,12,19,24
144:3 147:7 165:4,4,17,17,21 diseases 66:7 85:24	<b>documented</b> 21:25 89:18 114:10	draft 46:10 189:11 drainage 163:9	161:16,25 162:16 163:6	ends 33:1	45:10,12,19,24 105:14
144:3 147:7 165:4,4,17,17,21	documented 21:25	draft 46:10 189:11	161:16,25	<b>1</b>	45:10,12,19,24

)

(

€

F		· · · · · · · · · · · · · · · · · · ·		<del></del>	Page 201
equals 171:11	5:7 23:5 30:10	expense 83:1,11	103:2,6,8,9,13,18	facility 40:24	fancy 108:9
185:20	31:18 33:4	expensive 16:18	103:20,24 104:8	64:24 103:14	far 42:1 129:8,8
equation 53:15	114:18 123:15	83:4	104:14,17,19	fact 23:9 104:10	132:6,8 177:25
equations 83:23	125:9 135:25	experience 45:22	105:16 106:13	129:10 132:4	178:16
ERGO 57:23 58:7	136:6	45:23 48:11	106:14,16	146:22 157:4,22	farms 170:6
58:10	examinations	77:10 90:1	107:19 108:3	172:8 177:18	fast 75:9
erroneously	113:21	137:17 152:2	109:11,22,25	187:11	fat 18:12,15 19:21
126:17,19	examine 8:13	experienced 75:25	110:16,19 111:1	factor 56:11	19:23 20:3
error 54:25 70:9	95:17 133:8	79:15	115:13,15 116:9	119:15 121:19	father 142:21
70:11,15,18	139:13	experiencing 68:14	116:17 117:5,9	122:23 127:5	144:8,19 148:10
71:12,14,16,17	examined 5:5	136:1	117:25 118:3,14	129:7,23 130:2	148:18
71:18,19 185:3,6	119:21 194:3	expert 5:11 33:21	118:19 119:6,20	132:22 136:9	fatigue 10:20
errors 54:6	<b>example 23:4</b> 41:19 47:5 49:4	176:20 189:15 189:17	119:25 122:24 127:5 128:5,24	138:2 143:5 144:15 146:15	115:18 fatty 126:5
especially 88:4 101:21	73:20 74:15 75:6	experts 69:9	129:5,25 131:11	147:16 159:2	faults 52:24
establish 63:14	78:8 87:6 92:3	178:10	131:20 132:1,16	160:13,18,22	fear 136:22
108:23	95:23 97:22 98:1	explain 148:6	132:18,20,21	factoring 157:16	February 124:5
established 66:6	98:5,6 99:9,24	182:11	134:8,20 137:13	factors 45:4 53:15	feces 21:10
81:12	100:17 102:16	explanation	137:22 138:1,7	65:20,21 79:16	feel 11:21 44:21
establishing 14:5	103:22 107:20	181:13	139:23 140:2,14	88:23 89:1,24	46:16 88:3
92:12	109:14	explore 41:4 77:22	142:1,2,3,23	92:18 101:7,10	112:15
estimate 80:22	examples 108:16	141:19	145:13 146:3,7	109:15 118:11	feet 166:16
84:3 155:7	exceed 81:4	exposed 8:19,22	147:23 148:8	118:16 122:16	felt 143:22 150:9
estimated 76:9	exceeded 81:23	9:16 10:18 13:10	149:20 150:4	122:19 128:8,23	150:10
84:22 85:3 155:6	excess 102:18	42:9 58:1 64:15	159:3 162:12,17	129:3,8 140:9	female 148:14
estimates 51:18	110:17	65:12 78:10	164:1,20,23	142:23 143:16	149:5
78:20,21 80:3	excessive 116:15	80:23 82:6 84:6	167:20 168:2,10	145:24 146:13	fence 79:9
estimating 103:24	excised 126:8	91:18 92:4,16	174:3,4,11	146:20 148:1,19	fetuses 73:3
et 1:4,7 2:6,9 35:15	excrete 18:19	93:17 94:7	178:25 180:1,3	149:4,13 153:16	fewer 97:22,23
Europe 83:6	20:13	100:11,12	180:15	160:7,8,9,16,24	fibers 97:12,13
evaluate 8:10	excretion 12:5,9	101:12 103:15	<b>exposures</b> 31:5,6,8	161:5,7 177:9	field 30:5,22 33:3,9
33:20 63:23	18:16 19:6,15	113:25 118:8	31:9 69:4,5,6	factory 13:15	33:11 45:9,19
72:10 80:19	20:5	121:13 122:5,9	75:25 78:3,5	facts 62:15 132:10	48:11 78:6
93:20 98:24	excretory 19:8	122:13 130:5,10	85:4,13 87:4	faculty 24:15,23	fields 169:24,25
109:22	20:5 21:2	160:3 171:1	89:14 92:19,19	26:10 27:18,19	fight 131:17
evaluated 7:16	Executed 193:13	176:6 185:19	96:21 103:11	failure 140:20	fighters 14:7 15:15 51:3,4 52:14
34:11 182:8	exercise 12:4 exercised 19:10	exposure 4:11,13 4:14 8:16,18	105:21 109:15 115:23 117:2,6	157:17 fair 6:1 47:15	figure 7:17 187:23
evaluating 8:22 34:4 111:23	exercised 19:10 exhibit 6:7 172:12	9:21 17:21 22:3	119:3 121:16	51:21 105:9	figures 150:17
evaluation 7:6,22	172:13,17,18	31:11 41:14,16	129:23 132:6	128:22 150:5	file 182:23 186:23
8:1,5,17 11:2	175:5,14,15,18	45:3 47:13 48:8	143:4,25 146:14	154:15 157:14	files 109:24 113:5
23:1,3 31:14,24	175:20 176:15	64:7,8,11,13,21	148:24 164:11	fairly 10:16 62:24	<b>fill</b> 116:21 151:4,18
31:25 32:8,16	179:20,23,25	64:24 65:9,11,16	168:7 170:1,22	77:7 84:5 137:11	151:24
33:1,3,7,20	180:14,18,18	66:9,16 69:1,3	extend 129:21	170:3 181:24	filled 106:5 142:11
89:21	183:5,6,9,16	71:23,25 72:9,10	extensive 45:23	faithful 54:11	151:10,15 154:7
evaluations 7:13	184:5,17 185:9	72:15,18,21 73:9	53:20 77:21	fall 166:16	154:10
8:9,12 32:12,25	185:24 186:8,14	73:11,12,14,15	79:17 89:20	false 60:6	fills 154:13
event 30:4 59:14	189:6,7,10,15	73:17 74:17,19	extensively 121:25	familial 149:5	filtered 153:4
127:19 161:24	190:2,13,16,17	74:21,21 76:7,19	extent 81:22 129:3	familiar 30:15 34:2	find 13:5 14:23
events 21:24	191:1	77:4,4,13 78:8	173:21	45:9 74:8 97:3	25:11 32:5 86:14
everybody 84:21	exhibits 4:7 123:6	78:12,15,19 79:3	External 4:12	105:20 172:2	89:24 93:25
170:15	exist 83:24	79:3,5,12 80:21	externally 153:20	173:1•	109:4 133:3
everybody's 61:3	existence 105:4,5	84:4 88:10 90:3	extreme 164:10	family 64:2 65:13	143:17 144:4
evidence 21:13	exists 30:24	90:11,14,23 91:3	extremely 150:11	65:15,18,19	153:24 175:3
42:24 62:15	expanded 11:13	91:8,23 92:11,21	eye 116:5 137:8	88:25 92:18	finding 67:17
143:13	expect 71:25 140:7	93:22,25 94:1,6	166:9,21	125:3 127:20	108:22 120:15
exact 51:13 94:16	140:17,23 160:4	94:10,13,18,21	eyes 167:15	144:5,7,11,12,14	147:2,4
exactly 187:23	162:16	98:11 100:13,15	e-mail 27:4	148:11,12,15	findings 17:24
exam 30:9 166:18	expectations	100:21 101:3,5		161:6,11	86:10
examination 4:2	150:20	102:6,15,24	F	famous 74:13	fine 9:24
		<u> </u>	<u></u>	<u> </u>	<u> </u>

<del></del>					Page 202
fingernails 116:16	146:10 154:7,10	124:7 194:13	GI 165:22	great 72:22 96:19	140:21 144:9
fingerprint 71:24	154:13	furthermore	give 7:10 12:7	111:7 142:6	152:20 160:20
fingerprinted 72:6	formed 141:19	130:13	24:25 30:9 61:12	179:3	guessing 182:19
fingerprinting	formerly 190:11	future 71:10	79:14 80:12 95:2	greater 20:17	guessing 102.15
72:14	forming 55:15	101010 /1.10	98:14 151:21	44:24 129:8	guy 12.20
fingers 81:9 121:2	formulas 83:23	G	156:14 175:10	177:25	H
finish 154:6	forth 44:8 60:15	G 3:9	182:10,12	Greenville 171:6	habit 65:12
Finland 104:10	124:10 189:14	gastrointestinal	given 26:16,22	171:15,17	habits 64:3
fire 14:7 15:15	194:9	10:17 165:4,17	73:22 89:5 96:11	176:18,21 177:5	hair 121:5
51:2,4,8 52:2,4	forward 50:6	165:21	107:2,3 111:6	177:9 178:3,4,8	half 18:25 177:23
52:14	found 17:2 41:23	gather 109:20	132:4 150:19	178:11,16 187:7	hand 161:4
firemen 9:5,16	65:25 73:6 82:7	general 23:7 31:8	186:22 187:11	187:8,9 188:19	handful 6:19
11:8 51:9 187:10	104:8,11 106:3	42:5 46:22 51:11	giving 42:23	Greenwood 3:15	handle 35:4
187:11,22	127:7 134:25	54:18 63:11	121:17	Grenada 68:7,18	handles 58:25
firm 133:25	139:5 141:14,16	66:11 67:16 72:8	glucose 140:24	68:22 77:11,13	handwritten
first 5:5 12:23	152:3	72:25 77:5 84:21	go 6:8 14:7 22:12	81:23 82:16	135:20
16:21,24 17:12	foundational 128:9	91:13 93:1,3,5	22:19 29:14,20	165:1 169:12,14	handy 133:2
18:2,4 63:14	154:23	93:15,19,21,25	30:7 33:11,17	176:3,7 187:7	HANNIGAN 3:19
108:13 117:17	founder 12:18	95:16 98:25	40:9 44:20,22	188:9	happen 89:11 90:9
140:14 156:16	four 26:22 178:23	99:14 100:16	49:11 52:12 56:9	grew 145:5	107:3 108:14
161:16 179:17	182:20 188:18	102:9 104:18	64:17 74:15	Griffin 149:10,15	120:21 158:2
fits 41:10 85:8	fourth 147:25	105:15 108:21	78:18 83:21	149:19 150:5	happened 22:15
179:1	four-page 11:9	109:11 122:18	87:21 88:1 89:16	151:1 154:3	66:2 108:15
five 25:22,23 26:5	frame 14:24 36:19	124:25 141:3	98:21 103:14	155:4 159:1,14	135:11 158:2
114:18 169:1	38:4 88:12,14	146:16 147:18	104:22 109:24	159:17,20,25	happening 169:20
177:22	framed 88:20	150:15 155:8	111:17 112:17	160:3,10 162:11	happens 47:25
flawed 56:8 57:6	frames 96:22	177:2,19,20,22	112:18 115:4,4,6	164:5,14 168:3	107:2 170:11
flip 180:17	framework 111:14	181:5 183:19	123:4 128:22	169:7	happy 5:24
Florida 33:25	Frankly 69:18	186:5	136:7 141:17	Griffin's 153:23	Harbor 27:14
34:11	FRED 1:4 2:6	generally 22:19	145:25 158:14	155:15 161:15	hard 14:21 92:22
flow 20:6,11	free 112:15 170:5	45:5 52:18 57:9	174:23 177:25	163:25	harm 68:11,15
flows 43:19	frequently 33:7	73:6 90:1 102:10	181:8 185:4	gross 150:17	Harpreet 190:17
finid 163:10,12	50:7 66:1 84:5	104:17 107:4,6	189:20	ground 5:14 34:16	Harrison 124:6,23
focus 92:25 95:6,9	108:15 152:14	112:19 113:17	goal 11:17	78:10	124:24 125:5
112:15	freshly 32:4	141:24 158:11	goes 20:2,2 40:9	grounds 56:16	126:4
focused 95:12	friend 178:15	. 160:24	132:8	group 9:5 25:23,24	Harrison's 124:13
152:19	friends 65:19	generated 57:23	going 5:15 42:3	29:23,25 30:21	HARROLD 3:8
focusing 76:6	127:19	generic 63:15 66:8	43:24 56:8 69:18	33:4 44:23 91:20	bate 26:2
97:17	front 110:5,10	66:21 70:20,21	78:14 94:18	94:6 100:12,23	bazard 77:20
folks 69:1 82:7	113:2 119:13	70:23 71:1,5,6	105:17 108:25	100:24 101:12	head 5:17 39:13
follow 17:8 51:23	131:24 160:1	71:12 91:25	120;19 134:10	102:2 111:4	131:6 163:15
59:8 68:3	185:12	93:12 94:6	134:13 151:9	135:1 153:22	headache 115:16
followed 12:5	full 22:23 73:8	genetic 149:1,4	168:8 178:25	173:16 178:21	124:9 166:9
68:18	160:11 162:20	161:7,13	good 5:9 14:23	178:25 181:15	headaches 10:11
following 9:14	full-term 159:24	genetically 161:9	53:4,10,11,13	181:16,19	166:23
66:25 155:15	Fulton 3:15	German 172:24	58:21 77:3	groups 29:13 31:11	health 17:23 26:17
follows 5:6	fumes 9:16	186:22	100:11,13,15	33:13,16 78:17	45:25 63:2,16,17
follow-up 32:19,25	function 10:19	Germany 83:9	101:14 102:15	86:12 91:24	63:25 64:21
34:10 44:4 56:15	32:11 150:23	182:1	102:23 152:3	92:15,17,20	66:11 67:19,23
food 81:9	functioning 141:15	gestation 150:9	187:10	101:10 178:19	69:15,19 70:1,6
footnote 186:8	150:8,12,13,19	155:2,4,7,9	Gosh 34:22	178:22,23	77:11,20 78:16
foregoing 193:6,12	152:9	159:21	governing 56:17	181:22	87:12 88:24 89:6
194:4	fund 150:15	gestational 159:5	grade 111:17	grow 131:15	90:10,13 91:4,7
forget 83:2	fund-raising 17:4	162:16	gradual 136:15	growing 73:4	95:3 98:15
Forgive 31:3	furan 11:3 15:17	getting 14:23	gradually 136:12	163:21	114:22,24 115:3
forgot 116:21	16:3 18:1	21:11 49:20	graduate 35:8	grown 73:8	115:7,8 119:2,14
form 37:2 42:21	furans 15:20 18:17	51:18 102:2	grain 73:20 74:1,3	growth 39:14	122:14 136:5
44:25 55:13	19:6 22:17 83:1	108:7 109:18	74:15 75:7,15	126.12	139:22 140:10
56:18 60:7 105:1	171:15	129:4,21 157:23	grandparents	guess 34:23 67:7	141:3 142:1,3,10
142:11 145:20	further 15:9 57:14	188:20,22	161:12	69:24 70:16	143:5 151:14
	L	<u></u>	L		

ŗ

(

					rage 203
152:20,25	148:16 186:4	80:11,13 82:1	114:24,25	121:1,6,12,17,18	102:20,20
162:15 164:1	highest 16:9 41:14	83:24	115:16 117:7,9	121:20,22 122:1	112:24 121:18
165:8 176:2	41:16 45:2,3	Horsak's 79:22	117:11,15,17,21	122:2,7,8,17	122:21 131:18
healthy 73:8	highly 69:12 78:10	hospital 155:14,18	118:20,23 119:1	123:2 125:11,12	140:18 143:3,10
hear 5:22 167:11	145:22 146:24	156:10,13	119:11,15,16,22	131:14,15,16,19	148:14 162:8
heard 12:14,16	high-risk 169:11	168:11 173:12	119:25 120:2,4,5	149:24	169:3
					increases 20:6,7
34:7,9	Hinckley 169:23	174:5,7	120:8,8,9,19,24	impaired 114:9	•
heart 47:8,10	hinting 74:6	host 63:20	124:8 140:8	131:15 150:10	130:2 146:17
140:19,19,20	historical 64:8	hour 50:22 102:1	hypothetical	impairment	162:18 167:22
Heathcraft 142:22	historically 100:13	hours 12:5 14:22	119:12	141:15	increasing 12:5
heavier 131:7,10	histories 17:20,21	14:23 25:7 26:3	H-a-r-b-o-r 27:15	implication 60.6	incredible 77:14
heavily 145:6,6	85:5 132:25	156:16	Ī	implying 60:5	independent 85:24
160:3	history 8:12 31:18	house 58:13 68:8	·	important 5:16	86:19
heavy 9:23 89:11	64:1,2,2,2,5,9,22	68:10 72:4 76:10	ICD 98:17,19 99:1	16:6 54:9 58:10	index 4:1 124:19
153:14 161:1	65:24 70:1,24	81:1	99:14	58:10,20,22,24	indicate 161:15
Heikkila 104:10	75:23 76:8 88:25	HPV 127:1,2	ICD9 98:20 99:4,5	59:2,5,7 61:22	indicated 66:21
helatious 77:14	89:12,21 92:18	128:14,15,18	99:8	65:22 66:24 67:4	75:6 80:20 101:2
help 19:5 20:9	114:22 129:5,10	130:1,10,13,14	idea 53:1 69:18,25	73:1 76:8 89:1	132:24 137:24
21:17 23:21 32:5	133:4,22 134:17	130:18,20	72:8 85:13	89:25 93:21	147:15 149:7
99:9 133:1	134:18,19	131:25 132:8	104:18 174:1	103:7 104:15	164:7 166:9
151:20	135:14,20 136:2	<b>Hubbard</b> 12:14,15	ideal 92:22	109:11 122:11	indicating 21:1
helped 191:2,4	136:18 144:5,12	12:18,19 13:6	identical 93:11	147:8 150:2	indication 53:6
helpful 92:11	144:14 148:11	14:8,9,14,15,18	94:18,21 135:8	153:7 157:24	80:21 101:18
helps 19:19 20:11	148:12 150:9	15:6,8,9	178:23 187:15	importantly 75:22	144:18
20:12	151:8 153:4	Hubbard's 14:11	identifiable 169:20	impression 31:19	indicative 145:12
hematologic 99:22	160:14,15 161:6	huge 77:17 102:4	identification	56:3	146:24
hematolytic 99:13	161:11,13	103:20	172:14 175:16	inability 151:24	indicators 90:25
99:18	hit 77:22	huh-uh 5:18	179:21 183:7	inaccurately	individual 56:10
hematoseptic	HMOs 24:2	human 4:11,12,16	185:10 189:8	154:14	56:23 57:25
99:15	hobbies 64:3 88:25	93:8 126:23	identified 9:20	inadvertent 81:9	63:24 82:12 88:1
Hemisphere 11:14	Hobbs 141:12,24	128:11,23	32:15 38:24 41:9	include 59:25 60:2	89:2,16,17 92:9
hemorrhage 158:5	141:25 142:8	humans 63:18	44:24 74:6	60:17 61:18	93:16 96:20
158:10	145:1,15 146:1,5	106:23 138:22	106:10,12	82:19 110:21	107:9,16 108:25
hemorrhages	147:4,12,21	138:23	121:21 123:3	116:1	111:8 171:2
152:20 158:4	149:11 151:9,11	hundred 16:15,20	125:24 127:4	included 61:2	individuals 10:1
hen's 148:21	154:3,6	36:4 51:9 70:16	132:5 144:14	102:1	11:18 33:13
hereunto 194:16	hold 62:9 146:21	78:5 107:22	160:17 165:24	includes 71:6 93:8	103:23
heroin 160:20	home 76:3,15	128:13 130:15	166:1 179:6	including 9:15	individual's 64:21
hexa 72:6	168:10	181:18,19	identify 59:20,23	36:14 38:17	67:13
he'll 134:4	homes 58:14 64:14	hundreds 7:19,20	63:21 72:9 82:3	102:7 105:15	induced 161:21
high 21:1 39:4	68:13 76:11 77:1	36:17 38:3 58:3	96:10 98:9,22	106:21 132:12	Industrial 190:11
51:16,21 52:7,9	80:21,24,25 81:2	90:8 119:21	110:16 164:14	150:15 184:20	industry 102:5
68:9,10,23 69:5	153:14	<b>HUNTER 3:4</b>	164:17 165:22	incompatible	103:21,24 104:7
73:13 77:3,8,11	honest 57:13	husband 133:14	178:15 179:8	68:12	104:15 105:6
78:3,8 79:1,4,12	Hopp 3:9 4:5 5:8	134:9 142:11	identifying 72:2	incorrect 118:24	138:21
81:8 83:12 84:22	5:10 42:25 43:2	151:10,12 154:7	172:5	120:12	infant 39:5 154:25
85:3 97:12 104:5	50:22 51:1 55:16	hydrocephalic	ignore 95:9,11,12	incorrectly 55:23	155:8
108:23 117:13	56:25 60:13	163:5	ignored 57:11	increase 19:11	infection 130:23
120:15 128:12	81:14,17 83:18	hydrocephalous	ignoring 146:8	20:16,16 41:12	131:1
129:23 140:15	105:9,14,19	149:22 150:2	ill 9:18	41:17 43:14 53:9	infinitesimal 108:8
141:3,5,7 145:12	112:2,11,13	152:14 154:18	Illinois 3:10,12	98:4 129:12,16	influences 55:24
169:14 177:13	133:23 134:2,6	154:19 163:13	169:24	129:18 131:8	131:3
177:14 186:22	140:13 145:25	hydrocephalus	illness 10:2 66:8,10	132:7 141:8	information 27:12
187:17	146:11 148:2,4	149:17	66:11 81:7,8	143:14,17	32:20 46:11
higher 18:7 21:1	172:15 175:17	hydrophilic 18:10	87:11 91:19	144:23 148:24	53:21 64:3,6,7
41:23,24 45:6	179:19,22 183:1	hydrophobic 18:10	illnesses 10:1	increased 20:15	64:21 65:6,17
51:10 68:5 69:4	183:8 185:11	18:11 19:25 20:3		<b>4</b>	66:4 75:22 78:1
69:5 92:2 96:17	189:6,9 192:7,10		imagine 35:5	40:15 41:3 42:12	
4		hydroxipyrene	immediately 68:14	42:19 44:1,5,10	78:1 79:13,19
96:18 97:8 103:8 109:4 131:18	horrendously 68:9 Horsak 69:8 80:7	104:4	147:9 155:15	44:13 68:25 71:9	80:1,15 88:8
107.4 131.10	11013dk 07:0 00:/	hypertension	immune 10:17	75:16 92:10	92:3 93:10 95:3
	1			i e	ī

					rage 204
105:25 111:15	intestine 18:22	189:21 193:20	108:1 110:23	171:20,25	71:21 74:15
111:16 130:25	19:15 21:9	Jennifer 159:17,20	115:5 118:17	181:23 188:13	83:21 92:25
150:15 157:11	introduction	159:24 160:3	119:15 121:19	189:1	95:23 96:16 97:8
158:20 160:1	143:22	Jerome 33:25 34:5	122:11,15,19	label 12:11 87:4,13	99:13 100:1,17
189:2,3 193:9	intubate 156:20	34:11	131:1,25 132:6,7	87:14	112:18 115:9
ingestion 81:8,10	157:18	job 1:24 47:16	132:8,24 133:3	labeled 56:6	120:16 123:4
inhalation 77:2	intubated 152:22	49:11 53:11 78:7	135:4 136:8	labels 88:2	124:18 125:11
81:10	155:21 156:2	107:25	137:1,2 138:12	labor 150:23	133:4 135:19
inhaled 9:25	157:5	Joe 92:7	139:16 141:18	Laboratories	137:18 141:12
inhalers 135:23	intubation 158:19	JOEM 177:18,20	143:3 144:1	171:24	149:10 150:7
injuries 88:4	invented 13:3	Johns-Hopkins	146:1,9 148:15	laboratory 14:6	154:22 162:11
117:22	128:21	192:4	155:10,16,25	58:16 83:8	172:23 175:14
injury 23:12,15	invite 30:5	Join 29:13	156:7,8 157:1,8	labs 61:2 83:6	176:15 180:17
115:8 156:21	invoke 122:23	joined 31:1	157:12 158:1	lack 115:18 157:3	183:5,11,15
157:1,3,17	involved 9:12,19	Jones 87:16,18	159:3,19,24	166:10,12 167:2	184:1 188:7
inside 64:14 76:25	26:1 28:14 32:25	journal 11:14	160:23 166:19	lag 155:25	leukemia 99:20
insofar 42:22 60:3	33:16 34:4,10	46:11,15 47:9,12	168:13,23 171:9	laid 71:11 87:2	leukemias 99:20
65:25	35:10 178:4	47:14 48:3,13,18	173:5,17 174:4	90:12	99:22
insomnia 115:18	involvement 10:9	48:23 49:7 50:4	174:25 175:9	Lake 3:6	level 18:7 45:2
instability 115:20	22:13 27:12	176:25 190:11	181:10 182:11	language 189:24	77:11 101:3,5
instance 33:17	32:17 33:1,21	191:14,17,18	187:19 189:12	laptop 113:4	104:4 150:23
94:12	involves 12:2	journals 46:20	189:15 191:9	large 19:9,11 33:10	151:23 152:9
instances 32:15	involving 33:25	47:1,15,20 48:17	193:7	75:2 92:23 98:22	178:18 188:22
instrument 109:7	93:24 95:1,24	49:4,9 67:13	knowing 18:1	102:2,22 163:15	levels 4:16 11:3,4
insult 163:22	in-depth 31:23,25	189:19	146:4	larger 33:16 72:5	14:4 15:17 16:4
insulted 164:10	in-utero 73:3	judge 48:12 53:14	knowledge 30:14	101:19 102:9,12	16:9 18:1 20:9
insurance 8:6	irreparable 68:15	judged 52:22	52:13,16 158:18	102:14 103:3	51:10,14 52:7
23:22 24:4,7,9	irrespective 23:9	judging 56:20	193:8	131:11	65:4 68:5,7,23
24:10	140:14 146:2	125:1	known 63:17 64:25	largest 16:8	72:24 80:21 81:1
integral 45:25	162:17 170:1		65:16 70:9 75:14	lasting 137:21	81:6,8,10,11,12
integration 152:10	irritability 115:18	K	91:4 96:8 107:19	late 13:13 35:16	81:21 82:2 84:4
intellectual 141:15	166:10,25	Kansas 77:9	120:7 138:11	lately 23:19 25:1	85:4 104:3
150:12 162:23	irritated 89:8	Kay 3:18 141:12	163:13 165:3	latency 110:14,21	130:20 145:12
intended 12:9	irritation 116:4,5	141:24,25 142:8	knows 108:21	110:25	150:20 159:5,14
intensity 130:22	137:8 164:23	145:1 149:11	<b>Koppers</b> 1:7 2:9	Law 3:5,9,14	171:4 172:5
131:1	166:9,21	151:9 154:2,6	3:7 40:24 65:10	lawsuit 8:15 33:24	174:3 176:2
intentional 161:19	iso 110:24	keep 74:6 96:23	76:7 79:9 101:23	34:2,7 63:25	177:19,21,22
intentionally 54:19	isolate 101:11	167:15	132:2 139:23	90:2,4	178:11 188:21
55:2,6,9,10,11,20	issuance 33:2	keeps 50:4	142:22 144:9	lawsuits 33:17	libido 10:19 115:20
56:14 57:2,6	issue 23:14 45:1	Kelly 52:3	145:17 146:3	lawyer 23:9	life 18:25 40:16,21
interaction 167:23	62:22 63:3,6,14	Kentucky 107:21	147:12 148:19	lawyers 8:2 44:4	142:11,20
170:16	63:23 65:9,22	kidney 20:5 42:12	148:24 164:16	layman's 163:8	150:19 154:21
interested 95:18	66:5 72:2 76:6	95:24,25 96:7,25	164:20 165:3	lead 9:3	156:16,17
104:24 194:15	82:24 83:5 90:4	102:18 165:5,25	168:17	leading 42:9	157:18 163:7
intermediate 15:8	90:21 93:22	kill 74:4	Kreech 107:21	leave 170:17	164:11
internal 4:12 8:12	94:22 95:13	kind 8:17,20 39:1		180:18	lifestyle 64:2 88:25
23:7,18 28:21	98:11,12 130:25	161:7 168:7		leaving 157:2	life-long 89:11
internally 153:20	133:1 157:14	kinds 6:21 76:12	L 12:18	lecture 25:5	light 127:24
international 98:19	issues 26:16 32:9	99:10	lab 8:14 14:5 57:22	lectures 24:25 25:3	129:11,13
90:19 Internet 11:11	47:8,8 itching 116:15	knew 65:19 177:12	57:23 58:3,4,5,6	26:16	lightheadedness
internet 11:11	137:20 138:7	179:7	58:7,8,9,17,17,20	led 108:2 145:7	115:17 124:9
124:25 125:3	itchy 139:2,8	know 5:12 7:17 12:21 14:7 22:15	58:21,22,24 59:5	left 155:18 170:17	light-headedness 10:11
internists 37:15	item 101:7 125:19	L .	59:8,11,14,17,17   59:10 20 21 22	left-over 173:11 lend 20:4	likelihood 70:25
interpret 55:24	132:11 165:2	22:21 30:3 35:6	59:19,20,21,23	lena 20:4 length 39:13 85:11	108:7
interrupt 117:14	items 121:6	39:2 40:20 41:20 42:1 45:16 47:3	60:7,14,14,17,19 60:22,23 61:5,5		limit 188:24
interstitial 10:7	INCHES LALLO	51:12 55:14		letter 70:3 let's 8:25 14:7	limited 124:12
interviewed	<del></del>	56:10 66:8 70:13	61:8,8,14,14,18 61:24,24 62:1,5	15:15 41:4 42:5	149:24 150:25
127:16	James 1:13 2:16	85:6,7 89:7 92:2	80:10,10,11	46:2 47:5 50:10	149:24 150:25 153:1
interviews 123:20	4:3,15,17 5:4	101:3 102:3	83:11,11,19	53:16 65:18	limits 42:16,22
	700,20,27	101.0 102.0	03,11,11,17	77.10	
	<del> </del>		<del></del>		<u></u>

					Fage 20.
184:24 188:20	147:4 164:8,11	182:20 189:11	184:18 187:14	122:5 126:14	116:20 123:17
line 79:10	170:4	Los 13:17 169:3,16	mail 27:22	127:10 131:21	123:21,25 124:3
lines 82:7	LLP 3:8,13	loss 115:17,17,19	mailing 104:24	132:13 133:8,11	124:12 125:13
link 159:14	load 31:7 131:7,13	121:5 166:9	105:21,23	135:15 139:10	125:15,24
lipid 20:8 41:23	131:18 169:4,14	lost 12:8 114:14	main 14:4 26:23	140:1,2,5 141:13	149:19 152:18
lipoma 126:4,4	loaded 110:17	154:13	51:22 63:3	141:20 142:5	153:4,24 154:17
list 27:5,8 35:4	local 114:15	lot 20:23 58:9 95:2	141:11	143:1	155:16 156:15
40:9 48:3 58:3	156:12	97:16 102:2,4	maintaining 30:1	McNeal's 139:22	156:19 157:17
111:6 123:7	location 117:19	105:6 110:11	major 25:6 62:22	mean 31:24 46:8	158:23 161:15
125:1,8 137:3	lodged 43:7	111:4,15 119:20	63:23 129:25,25	56:24 62:13,16	173:13
154:16 161:3	logical 179:2	127:16 133:21	143:1,2,6	67:9 97:18 114:8	medically 63:3
165:13 167:19	long 64:11 73:14	151:19 158:12	making 78:14	122:17 130:16	Medicare 23:24
176:6 183:16	74:18 <b>75:10</b>	159:11 169:14	102:21 105:6	145:9 153:17	medication 47:11
191:16	110:15 127:18	170:7 191:5	male 144:20	157:12 160:20	120:23
listed 114:2 123:24	155:25 156:6,8	lots 54:17,17	148:16,20 149:3	163:8 169:17	medications
124:2,16 126:17	158:18	loud 5:16	149:7	171:1,1,4 176:9	115:25 136:8
126:18 135:14	longer 23:7,19	Louisiana 3:6	malpractice	188:10 191:15	medicine 6:11 7:4
144:21 187:14	125:7 146:1	Louisville 107:21	156:21 157:2	192:1	8:12 23:7,18
Listen 60:11	long-term 115:19	low 39:4,12,13,13	mammary 148:25	meaningful 118:17	26:18,19 27:11
literature 42:11,16	166:11 167:8	72:24 73:13 77:3	man 74:8 151:17	meaningfully	27:20 28:1,4,21
42:18 43:4 47:7	LONNIE 3:14	78:3,14 79:12	152:12	118:10	29:1,22 30:23
52:23 57:18,21	look 22:12 47:22	97:25 98:2,7	manipulated 55:6	means 20:4 24:6	31:4 47:14 48:19
58:2 66:20,22	48:25 49:2,14,22	104:4 116:10,10	manipulation 56:6	45:17 53:13	48:24 100:24
78:4 91:11 96:13	49:24 50:13	116:11 122:18	manuscript 46:12	131:16 156:4	152;23 177:1
109:21,25 110:5	53:18 55:23	141:15 150:11	189:11,18	163:9 170:5	190:4,7,11,12
148:13 151:13	64:23 65:7 66:22	150:21 152:9	March 22:20	177:3 188:12	Medic-aid 23:24
162:4	70:4 78:16 88:23	165:7,9	mark 6:6 123:6	meant 46:19 97:18	medium 73:13
litigation 28:14	91:24 92:15	lower 73:7 107:16	172:12 175:14	114:7 133:16	77:3 78:3 79:12
178:4 189:16	93:22,24 94:6,12	177:2,16,17	179:19 183:5	measure 16:17	meet 24:23
little 25:14 51:10	94:25 95:6,16,19	181:11 182:2	marked 172:13,16	20:19,24 21:6,14	meeting 11:9,11,15
111:14 149:16	95:21,25 96:13	lowest 41:21	175:15 179:20	58:12 103:14,14	151:1 183:12
186:4	98:11 99:1,3,3,7	lumped 181:20	180:13 183:6	139:15	meetings 29:17,20
live 77:15,20 114:3	106:20 107:9	lunch 42:6 112:12	185:9 189:7	measured 14:2,3	29:22,23,23,25
136:24 140:16	109:7 110:11,19	Lundy 3:4,4 42:21	marker 20:23,25	15:20 16:7,11	30:6,7 172:22
168:16 170:12	111:7,13 124:18	43:1 50:24 55:13	markers 9:21	18:25 20:21	member 24:1,2
177:13 179:9	132:25 136:20	56:18 60:3 69:16	market 150:24	82:14 85:14	27:18,19 30:18
lived 64:9,11 75:23	144:22 153:8,23	105:1,12 112:1	marketplace 62:8	153:24	members 46:22
76:15 78:25	176:15 178:25	133:20 134:4	married 142:21	measurement	65:13,15,18
114:2,2,5 117:16	180:7,19 183:15	140:11 145:20	match 66:8 109:16	61:25 71:16	144:7 148:15
119:7,11 135:9	184:1 185:17	146:8 192:12	109:17 186:16	measurements	membrane 39:4
136:21 142:19	188:7 189:3	Lundy's 113:4,6	186:17 187:12	15:17,25 79:7	74:25
145:5,16,19	looked 41:22 45:1	133:25	188:4,8	80:3 81:20 82:5	memorize 99:5
146:1 147:12	45:2,4 56:13	lung 10:8 38:7	matched 178:18	82:13 83:22 103:25 114:21	memory 10:11 115:19 124:9
169:8,9,12,13 178:13,16,22	61:11 89:23 95:19 96:3,16	40:11 42:10 65:9	179:6 matches 71:25		144:6 152:6,10
liver 36:13,14,21	138:16 139:19	97:11,12,13,17 99:7,8,10 102:17	material 76:12,25	measuring 17:9 79:10	166:11,11 167:5
40:3,6 41:24	149:11	108:9 129:15,16	113:7	mechanism 19:20	167:8 190:6
-		•	materials 76:9		men 107:7
42:20 43:3,8,8 75:11,14,17	looking 49:17 74:16 76:8 82:1	142:14 144:10 144:21 165:4,17	82:10 85:7	63:19 131:17 159:7	men 107:7 mental 39:14 150:7
		1		mechanisms 157:8	158:10
165:5,23 lives 64:5 78:25	93:5,20 94:17 95:15 102:8	167:24 lungs 136:16	164:24 182:23 186:24	158:13	mentally 111:21
92:7 152:6	103:23 107:18	lungs 130:10 lupus 122:21,25	matter 70:4 102:9	medical 8:13 34:25	150:6
169:23	103:23 107:18	lying 156:6	193:6	35:8,15 44:7,8	mention 84:16
living 43:24 44:23	111:5 113:3,10	lymphatic 99:22	matters 193:8,10	51:7 52:1,3	124:11 142:25
67:20 69:11	113:19,20	LA 21:20 169:9	matters 195:8,10 maximal 162:20		mentioned 72:14
76:24 80:24	120:13 126:2	L.L.P 3:4	McCall 51:14,16	62:14,15,18,24 63:12 64:1,4	79:16,19 100:1
86:17 114:1	120:13 120:2 144:5 171:10	IALAE 3:4		•	121:1,6 123:5
		M	McGee 77:9 104:2 McNeal 113:1,12	65:23 66:1,22 69:7,11 86:14,20	125:20 171:10
	1 20075 1270			i 09:7.11A0:14.///	
115:22 135:3 136:10 137:3	180:25 182:1				I '
136:10 137:3 139:6 145:1	180:25 182:1 183:24 184:4,11 looks 94:16 172:25	magic 169:20 magnitude 177:25	113:18 118:8,20 120:2 121:13	88:6 89:22 112:16 113:11	merely 117:6 merit 46:14 52:22